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WARRANTY/SERVICE and GENERAL INFORMATION



MILWAUKEE ELECTRIC TOOL WARRANTY

Every MILWAUKEE product is warranted to be free from defects in material and workmanship. MILWAUKEE will repair or replace any product which examination proves to be defective in material or workmanship.

Limitations. This warranty does not cover: 1) repairs made or attempted by other than MILWAUKEE or Authorized MILWAUKEE Service Center personnel; 2) normal wear and tear; 3) abuse; 4) misuse; 5) improper maintenance; 6) continued use after partial failure; 7) tools that have been modified; or product used with an improper accessory.

Battery Packs are warranted for one (1) year from the date of purchase.

Should a problem develop, return the complete product to any MILWAUKEE Branch Office/Service or Authorized MILWAUKEE Service Center, freight prepaid and insured. If inspection shows the problem is caused by a defect in material or workmanship, all repairs or a replacement will be made at no charge and the product will be returned, transportation prepaid.

No other warranty, written or verbal, is authorized. In no event shall Milwaukee, or any of its affiliates, be liable for consequential, incidental or indirect damages or other losses or expenses incurred by reason of use or sale of the product. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IM-PLIED WHETHER FOR MERCHANTABILITY OR FITNESS FOR PARTICULAR USE OR PURPOSE.

This warranty gives you specific legal rights. You may also have other rights that vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

SATISFACTION GUARANTEED!

If you are not satisfied with any MILWAUKEE product within 30 days of purchase, return it for replacement or a full refund - NO questions asked!

The Satisfaction Guarantee excludes product showing evidence of abuse, misuse or modification. To receive a replacement or refund, return the product and all original equipment packaged with it to the dealer from which it was purchased.

(proof of purchase required)

MILWAUKEE DISTRIBUTORS: MILWAUKEE Electric Tools are sold only through Authorized Distributors with experienced personnel to assist you in selecting the proper tools for your specific requirements and that maintain well balanced inventories of tools for fast delivery.

> Look for your nearest MILWAUKEE distributor in the Yellow Pages - under "Tools - Electric".

LISTED: MILWAUKEE Heavy-Duty Tools bearing the monograms of Underwriters' Laboratories, Inc. or Canadian Standards Association are listed by their testing laboratories as having complied with their standards for safety.







MILWAUKEE MOTORS: All MILWAUKEE motors are universal type and will run equally well on DC or AC (20 to 60 HZ) except those used on Bench Grinders, Water Pumps, Vacuum Pumps and Hoists. Tools with switches or controls requiring AC operation are indicated as "AC" or "AC Only" under the tool's specifications.

GENERAL INFORMATION: The Milwaukee Electric Tool Corporation reserves the right to make any change or improvements to its products without incurring any liability or obligation whatever and without being required to make any corresponding changes or improvements in products previously manufactured or sold.

OPERATING INSTRUCTIONS: An operator's manual is furnished with each MILWAUKEE Electric Tool. Please read it carefully for best care and performance. IMPOR-TANT-Pay particular attention to all safety warnings before operating any power tool.

TRADE ASSOCIATIONS:















EXTENSION CORD CHART: When an extension cord is used, it should always be a 3 wire cord to permit proper grounding of the 3 wire grounded tools. As the distance from the supply outlet increases, heavier gauge extensions are required. The use of extension cords of inadequate size wire causes a serious drop in voltage, loss of power and possible motor damage.

TRIPLE TAP EXTENSION CORDS:

Extra Heavy-Duty, Three Wire, Grounded. CATALOG NUMBER LENGTH **GAUGE** 48-76-0170 50' 12 48-76-0180 100 12 48-76-0190 12



RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENTION CORDS*

Nameplate	Extension Cord Length								
Amperes	25′	50′	75′	100′	150′	200′			
0 - 5	16	16	16	14	12	12			
5.1 - 8	16	16	14	12	10	_			
8.1 - 12	14	14	12	10	_				
12.1 - 15	12	12	10	10	_	_			
15.1 - 20	10	10	10	_	-	_			

^{*} Based on limiting the line voltage drop to five volts at 150% of the rated amperes.

Milwaukee 1/4.

HEAVY-DUTY HOLE-SHOOTERS

TRIGGER SPEED CONTROL REVERSING

ALL BALL AND ROLLER BEARINGS
HELICAL CUT HEAT TREATED GEARS
FOR HEAVY-DUTY INDUSTRIAL/CONSTRUCTION APPLICATIONS





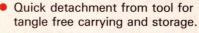
- Aluminum Gear Case and Diaphragm supplies greater support for shaft and bearings
- Heavy-Duty Industrial Chucks
- Powerful MILWAUKEE built Motor
- Trigger Speed Control Reversing Switches
- High Strength Impact Resistant Handles

0124-1 MAGNUM 0-2000 RPM

- POWERFUL 5.2 AMP
- 0-2000 RPM Speed Control For using a full range of drilling accessories

EXCLUSIVE
MAGNUM®
QUIK-LOK
CORD SETS





- Instant field repair, safe replacement.
- 8' standard equipment, 25' available.
- 8' and 25' Quik-Lok with Twist Lock Plug Cord Sets available.

REPLACEMENT



SPECIFICATIONS

with only a screwdriver. SELF-STOPPING

BRUSHES, Instant

brush replacement

by using spares

cartridge system.

stored in

• EXCLUSIVE MAGNUM® FEATURE:

REMOVABLE BRUSH CARTRIDGE SYSTEM ... change brushes in less than one minute, anywhere,

CATALOG NUMBER	CAPACITY (INCHES) IN STEEL	VOLTS AC ONLY	AMPS	SPEED (NO LOAD) RPM	GEAR TRAIN	SPINDLE DIAMETER AND THREAD	CATALOG NO. (CHUCK KEY INCLUDED)	REPLACEMENT CHUCK KEY CATALOG NO.	LENGTH (INS.)	NET WGT. (LBS.)	SHP. WGT. (LBS.)
0102-1 REV.	1/4	120	3.5	0-2500	SINGLE	3/8"-24	48-66-0070	48-66-3200	8-3/8	3-1/2	4-1/2
0141-1 REV.	1/4	120	3.5	0-4000	SINGLE	3/8"-24	48-66-0070	48-66-3200	8-1/2	3-1/2	4-3/4
0124-1 REV.	1/4	120	5.2	0-2000	DOUBLE	3/8"-24	48-66-0070	48-66-3200	10	4	5-1/4

STANDARD EQUIPMENT: FOR 0102-1 and 0141-1—Chuck Key and Rubber Flex Key Holder.

FOR 0124-1—8' Quik-Lok Cord (see page 11), Chuck Key, Rubber Flex Key Holder
and Side Handle.

SEE PAGE 11 FOR ACCESSORIES

HEAVY-DUTY HOLE-SHOOTERS

TRIGGER SPEED CONTROL REVERSING

HEAVY-DUTY
INDUSTRIAL/
CONSTRUCTION
ELECTRONICS ON MODELS 0222-1, 0228-1 0229-1, 0230-1 AND 0224-1

ALL BALL AND ROLLER BEARINGS **HELICAL CUT HEAT TREATED GEARS** FOR HEAVY-DUTY INDUSTRIAL/CONSTRUCTION APPLICATIONS



0-1000 RPM

KEYLESS CHUCK

WITH

- Aluminum Gear Case and Diaphragm supplies greater support for shaft and bearings
- Heavy-Duty Industrial Chucks
- Powerful MILWAUKEE built Motor
- Trigger Speed Control Reversing Switches
- High Strength Impact Resistant Handles

POWERFUL 0224-1

MAGNUM 0-1200 RPM

- 5.2 AMP
- 0-1200 RPM Speed Control For using a full range of drilling accessories

EXCLUSIVE MAGNUM® FEATURES:

- EXCLUSIVE BRUSH CARTRIDGE SYSTEM
- QUIK-LOK CORD SETS

- UNIQUE DESIGN 55° Angled Chuck for easy access to tight places
- LIGHTWEIGHT Only 3-1/2" lbs.
- Comfortable Grip, Efficient Paddle Switch
- HIGH IMPACT HOUSING
- DOUBLE INSULATED



CLOSE QUARTER 0-1300 RPM



REPLACEMENT

S	PE	C	Н	CA	AT	10	NS	,
					CAP	ACIT	Υ	

CATALOG NUMBER	CAPACITY (INCHES) IN STEEL	AC ONLY	AMPS	SPEED (NO LOAD) RPM	GEAR TRAIN	SPINDLE DIAMETER AND THREAD	CHUCK CATALOG NO. (CHUCK KEY INCLUDED)	REPLACEMENT CHUCK KEY CATALOG NO.	LENGTH (INS.)	NET WGT. (LBS.)	SHP. WGT. (LBS.)
0222-1 REV.	3/8	120	3.5	0-1000	DOUBLE	3/8"-24	48-66-0805*	48-66-3080	9-1/2	4	5
0228-1 REV.	3/8	120	3.5	0-1000	DOUBLE	3/8"-24	48-66-0795	48-66-3240	9-1/4	3-3/4	5
0229-1 REV.	3/8	120	3.5	0-1000	DOUBLE	3/8"-24	48-66-0375	-	9-1/4	3-3/4	5
0230-1 REV.	3/8	120	3.5	0-1700	DOUBLE	3/8"-24	48-66-0795	48-66-3240	9-1/4	3-3/4	5
0224-1 REV.	3/8	120	5.2	0-1200	DOUBLE	3/8"-24	48-66-0805	48-66-3080	10-1/2	4-3/4	6
0375-1 REV.	3/8	120	3.5	0-1300	DOUBLE	3/8"-24	48-66-0795	48-66-3240	10	3-1/2	5
0380-1 REV.	3/8	120	3.5	0-1500	DOUBLE	3/8"-24	48-66-0375	- 1	10	3-3/4	5

* Large Body Chuck.

STANDARD EQUIPMENT: FOR 0222-1 and 0228-1—Chuck Key and Rubber Flex Key Holder.

FOR 0230-1-Chuck Key and Rubber Flex Key Holder.

FOR 0224-1-8' Quik-Lok Cord (see page 11), Chuck Key, Rubber Flex Key Holder and Side Handle.

FOR 0375-1-Chuck Key and Rubber Flex Key Holder.

SEE PAGE 11 FOR ACCESSORIES

HEAVY-DUTY HOLE-SHOOTERS

TRIGGER SPEED CONTROL REVERSING

ALL BALL AND ROLLER BEARINGS HELICAL CUT HEAT TREATED GEARS FOR HEAVY-DUTY INDUSTRIAL/CONSTRUCTION APPLICATIONS





Aluminum Gear Case and Diaphragm supplies greater support for shaft and bearings

- Heavy-Duty Industrial Chucks
- Powerful MILWAUKEE built Motor
- Trigger Speed Control Reversing Switches
- High Strength Impact Resistant Handles

0238-1 0-850 RPM



EXCLUSIVE BRUSH CARTRIDGE SYSTEM Change brushes in less than one minute. Extra brushes stored in cartridge system.

Quik-Lok Cord Sets

- Quick detachment from Tool for tangle free carrying and storage.
- 8' standard equipment, 25' available
- 8' and 25' Quik-Lok with Twist Lock Plug Cord Sets Available

0234-1 **MAGNUM** 0-850 RPM

> 0244-1 MAGNUM 0-600 RPM

POWERFUL 5.2 AMP

- 0-850 RPM Speed Control (Model 0234-1)
- 0-600 RPM Speed Control (Model 0244-1) For using a full range of drilling accessories

0379-1 **CLOSE QUARTER** 0-750 RPM



- UNIQUE DESIGN—55° Angled Chuck for easy access to tight places
- LIGHTWEIGHT-Only 3-1/2 lbs.
- Comfortable Grip, Efficient **Paddle Switch**
- HIGH IMPACT HOUSING
- DOUBLE INSULATED
- QUIET RUNNING

SPECIFICATIONS

CATALOG NUMBER	CAPACITY (INCHES) IN STEEL	VOLTS AC ONLY	AMPS	SPEED (NO LOAD) RPM	GEAR TRAIN	SPINDLE DIAMETER AND THREAD	CHUCK CATALOG NO. (CHUCK KEY INCLUDED)	REPLACEMENT CHUCK KEY CATALOG NO.	LENGTH (INS.)	NET WGT. (LBS.)	SHP. WGT. (LBS.)
0238-1 REV.	1/2	120	5.0	0-850	DOUBLE	1/2"-20	48-66-1360	48-66-3280	10-1/2	4-3/4	6
0234-1 REV.	1/2	120	5.2	0-850	DOUBLE	1/2"-20	48-66-1360	48-66-3280	10-1/2	4-3/4	6
0244-1 REV.	1/2	120	5.2	0-600	DOUBLE	1/2"-20	48-66-1360	48-66-3280	10-1/2	4-3/4	6
0379-1 REV.	1/2	120	3.5	0-750	DOUBLE	3/8"-24	48-66-2100	48-66-3480	10	3-1/2	5

REPLACEMENT

STANDARD EQUIPMENT: FOR 0238-1-Chuck Key, Rubber Flex Key Holder and Side Handle.

FOR 0234-1 and 0244-1-8' Quik-Lok Cord (see page 11), Chuck, Rubber Flex Key Holder and Side Handle.

FOR 0379-1-Chuck Key and Rubber Flex Key Holder.

SEE PAGE 11 FOR ACCESSORIES



HEAVY-DUTY HOLE-SHOOTERS with KEYLESS POWER CHUCKS

TRIGGER SPEED CONTROL REVERSING



ALL BALL AND ROLLER BEARINGS HELICAL CUT HEAT TREATED GEARS FOR HEAVY-DUTY INDUSTRIAL/CONSTRUCTION APPLICATIONS

FASTEST, EASIEST Way of Changing Bits

RATCHET MECHANISM DRIVES ALL THREE JAWS TO A BALANCED, POWERFUL GRIP • EXCLUSIVE AND PATENTED MILWAUKEE CHUCK





- Aluminum Gear Case and Diaphragm supplies greater support for shaft and bearings
- **Powerful MILWAUKEE built motor**
- **Trigger Speed Control Reversing Switches**
- High Strength Impact Resistant Handles
- **POWERFUL 5.0 AMP**



0235 - 1MAGNUM

> 0-850 RPM WITH KEYLESS **POWER CHUCK**

EXCLUSIVE MAGNUM® FEATURES:

EXCLUSIVE BRUSH CARTRIDGE SYSTEM Change brushes in less than one minute. Extra brushes stored in cartridge system.

Quik-Lok Cord Sets

- Quick detachment from Tool for tangle free carrying and storage.
- 8' standard equipment, 25' available
- 8' and 25' Quik-Lok with Twist Lock Plug Cord Sets Available

SPECIFICATIONS

CATALOG NUMBER	CAPACITY (INCHES) IN STEEL	VOLTS AC ONLY	AMPS	SPEED (NO LOAD) RPM	GEAR TRAIN	SPINDLE DIAMETER AND THREAD	REPLACEMENT CHUCK CATALOG NO.	LENGTH (INS.)	NET WGT. (LBS.)	SHP. WGT. (LBS.)
0239-1 REV.	1/2	120	5.0	0-850	DOUBLE	1/2"-20	48-66-2020	10-1/2	4-7/8	6
0225-1 REV.	3/8	120	5.2	0-1200	DOUBLE	3/8"-24	48-66-2030	10-1/2	4-3/8	6
0235-1 REV.	1/2	120	5.2	0-850	DOUBLE	1/2"-20	48-66-2020	10-1/2	4-7/8	6

STANDARD EQUIPMENT: FOR 0239-1-Side Handle. FOR 0225-1 and 0235-1-8' Quik-Lok Cord (see below) and Side Handle.

PLUG TYPE

PLUG

NO. 48-03-0010

Not available in Canada

ADAPTER

ACCESSORIES FOR PISTOL GRIP HOLE-SHOOTERS

A	a
1	48
Cord Set	48
g Differ	Q
VUD	48

BELT CLIP

NO. 48-67-0115

on belt or pocket.

For All Non-Magnum Drills. At-

taches to top of drill for holding

CATALOG NUMBER DESCRIPTION **UIK-LOK CORD SETS** 3-76-4008 8' DUIK-LOK

3-76-4025 25' QUIK-LOK 5-15P UIK-LOK CORD SETS WITH TWIST LOCK PLUG 3-76-4108 8' QUIK-LOK W/TWIST LOCK PLUG L5-20P 48-76-4125 25' QUIK-LOK W/TWIST LOCK PLUG L5-20P

SIDE HANDLES NO. 49-15-0260 For Magnum® Drills

NO. 49-15-0150 For Drill 0238-1, 0239-1

RUBBER FLEX KEY HOLDER NO. 48-66-4040

FOR KEYS 48-66-3080 48-66-3240, 48-66-3280 and 48-66-3480

CARRYING CASE NO. 48-55-0711

For Pistol Drills and Screw-Shooters. Overall size 13-1/2"



long, 6" high and 8-3/4" wide. TOOL HOLSTER



STEP DRILL BITS SEE PAGE 27



SLOTTED BIT AND FINDER SET# NO. 48-30-2705

SOCKET SET

NO. 49-66-3005

QUICK CHANGE CHUCK

NO. 48-03-0005



AND SCREWDRIVER BIT SET* NO. 48-30-0105



NO. 49-17-0200

For Pistol Drills

and Screw-Shooters

DOUBLE END TWIST DRILL SET* NO. 48-89-0040



DRIVER/DRILL BIT SET* NO. 48-30-0101



SCREWDRIVER RIT SET# NO. 48-30-0100

HEAVY-DUTY "D" HANDLE HOLE-SHOOTERS

HELICAL CUT HEAT TREATED GEARS ALL BALL AND ROLLER BEARINGS





CATALOG NUMBER	CAPACITY (INCHES) IN STEEL	VOLTS AC ONLY	AMPS	SPEED	(NO LOAD) RPM	GEAR TRAIN	SPINDLE DIAMETER AND THREAD	CHUCK CATALOG NO. (CHUCK KEY INCLUDED)	REPLACEMENT CHUCK KEY CATALOG NO.	LENGTH (INS.)	NET WGT. (LBS.)	SHP. WGT. (LBS.)
1007-1 REV.	1/2"	120	4.5	Speed Control	0-600	DOUBLE	1/2"-20	48-66-1360	48-66-3280	14-1/4	6-1/4	10
1107-1 REV.	1/2"	120	4.5	Speed Control	0-500	TRIPLE	1/2"-20	48-66-1360	48-66-3280	14-1/4	6-1/2	10
1001-1 REV.	1/2"	120	4.5	Single	600	DOUBLE	1/2"-20	48-66-1360	48-66-3280	14-1/8	6-1/4	10
1101-1 REV.	1/2"	120	4.5	Single	500	TRIPLE	1/2"-20	48-66-1360	48-66-3280	14-1/8	6-3/4	10-1/2
1201-1 REV.	1/2"	120	4.5	Single	350	TRIPLE	1/2"-20	48-66-1360	48-66-3280	14-1/8	6-3/4	10-1/2
1250-1 REV.	1/2"	120	6.2	Single	950	DOUBLE	1/2"-20	48-66-1360	48-66-3280	14-1/8	6-1/2	10

"REV." after Catalog Number indicates reversing motor.

STANDARD EQUIPMENT: FOR 1007-1 and 1107-1—Side Handle No. 49-15-0150, Chuck Key and Rubber Flex Key Holder. 8' Quik-Lok Cord set No. 48-76-4008 (see page 11).
FOR 1001-1, 1101-1, 1201-1 and 1250-1—Side Handle No. 49-15-0150, Chuck Key and Rubber Flex Key Holder.

HEAVY-DUTY REVERSING RIGHT ANGLE DRILL KITS

3102-1 PLUMBERS' KIT 3202-1 PLUMBERS' KIT

3002-1 ELECTRICIANS' KIT

VARIABLE SPEED KIT

3300-1 MAGNUM® RAD KIT





TYPE "A" GREASE
For "D" Handle Drills
NO. 49-08-0500 NO. 49-08-0800
1/2 LB. CAN 1 LB. CAN

TYPE "E" GREASE
For Magnum Drill
NO. 49-08-4121
1 LB. CAN

SPECIFIC	AHONS	iii diiy p	COICION							SHIPPING
CATALOG NUMBER	TYPE	CAPACITY IN STEEL	VOLTS AC ONLY	AMPS	SPEED	DRILL ONLY RPM	RPM LOW SIDE	W/RAD HIGH SIDE	GEAR TRAIN	WEIGHT LBS.
3002-1 REV	ELECTRICIAN	1/2"	120	4.5	SINGLE	600	400	900	DOUBLE	21
3102-1 REV	PLUMBER	1/2"	120	4.5	SINGLE	500	335	750	TRIPLE	21
3107-1 REV	VARIABLE	1/2"	120	4.5	SPEED CONTROL	0-500	0-335	0-750	TRIPLE	21
3202-1 REV	PLUMBER	1/2"	120	4.5	SINGLE	350	230	525	TRIPLE	21
3300-1 REV	MAGNUM	1/2"	120	5.3	SPEED CONTROL	0-850	0-565	0-1275	DOUBLE	14

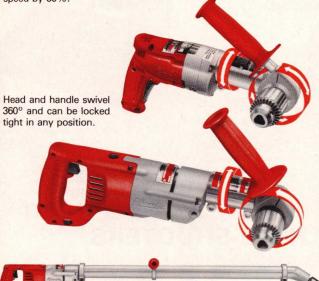
STANDARD EQUIPMENT: 3002-1 Kit contains 1001-1, 3102-1 Kit contains 1101-1, 3107-1 Kit contain 1107-1, 3202-1 Kit contains 1201-1, 3300-1 Kit contains 0234-1. All Kits contains 0234-1. All Kits contains 0234-1. All Kits contains 020-1 Right Angle Drive, NO. 49-96-4060 9/16" Open End Wrench, NO. 49-96-0080 3/16" Socket Wrench, Chuck Remover Bar, Side Handle and Steel Carrying Case NO. 48-55-0797.* Kit 3300-1 and 3107-1 also contains 8' Quilk-Lok Cord Set NO. 48-76-4008. *Case for 3300-1 is NO. 48-55-0200.

Milwankee

HEAVY-DUTY ANGLE DRIVE UNITS

TO CONVERT STRAIGHT DRILLS TO ANGLE DRILLS

Used extensively for drilling between joists, studding, in tight corners or in close quarters on machinery equipment. Provides two additional drilling speeds. Chuck transferred from drill to LOW spindle of right angle unit reduces drills normal speed by 1/3 and increases drilling torque by 50%. Chuck transferred to opposite spindle of right angle unit increases speed by 50%.



33° ANGLE DRIVE KIT NO. 48-06-2860 FOR DRILL MODELS 1001-1 REV., 1007-1 REV., 1101-1 REV., 1107-1 REV., 1201-1 REV., 1250-1 REV.

Stretches drilling reach up to 30 inches. Permits easy drilling of up to 2-9/16" dia. holes. Kit consists of an extension tube, side handle, drive shaft with hex sockets on both ends, two clamping collars and a 33° Angle Drive unit. Use 33° Angle Drive with the 30" extension only. 33° angle units operate at the same speed as the drill powering them.



OPTIONAL ADJUSTABLE SIDE HANDLE NO. 49-15-0200

TYPE "A" GREASE

For "D" Handle Drills NO. 49-08-0500 NO. 49-08-0800 1 LB. CAN 1/2 LB. CAN

TYPE "E" GREASE

For Magnum Drill NO. 49-08-4121 1 LB. CAN









FOR REVERSING DRILL MOTORS

Drive Unit NO. 48-06-2871 Includes Coupling NO. 42-90-0175 for 0234-1 and 0244-1.

FOR NON-REVERSING MOTORS

Coupling NO. 42-90-0080 to be purchased separately.

	RPM DRILL		ITH RAD
DRILL CATALOG NO. AND	TYPE ONLY	LOW SIDE	HIGH SIDE
0234-1 REV. MAGNUM® PIST	OL DRILL 0-850	0-565	0-1275
0244-1 REV. MAGNUM® PIST	OL DRILL 0-600	0-400	0-900
1001-1 REV. "D" HANDLE DR	IILL 600	400	900
1007-1 REV. "D" HANDLE DE	RILL 0-600	0-400	0-900
1101-1 REV. "D" HANDLE DE	RILL 500	335	750
1107-1 REV. "D" HANDLE DE	RILL 0-500	0-335	0-750
1201-1 REV. "D" HANDLE DE	RILL 350	230	525
1250-1 REV. "D" HANDLE DE	RILL 950	630	1425
"REV." after Catalog Number indica	tes reversing motor.		



30" EXTENSION NO. 48-95-0400

FOR DRILL MODELS 1001-1 REV., 1007-1 REV., 1101-1 REV., 1107-1 REV., 1201-I REV., 1250-I REV.

30" extension available separately for use with MILWAUKEE RAD units NOS. 48-06-2870 and 48-06-2871. Unit comes complete with 30" extension tube, drive shaft with hex socket on both ends, two clamping collars, and side handle. Purchase RAD unit separately.

OPTIONAL STEEL CARRYING CASE

for "D" Handle Drills NO. 48-55-0797

> for Magnum Drill NO. 48-55-0200

Heavy-duty 20 gauge steel. Case for "D" Handle holds drill with 6" bit installed. Case for Magnum has a removable tray.

3 WIRE CORD SETS FOR MODEL NOS. 1007-1 AND 1107-1

CATALOG NUMBER DESCRIPTION QUIK-LOK CORD SETS

48-76-4008 8' OUIK-LOK 48-76-4025 25' QUIK-LOK QUIK-LOK CORD SETS WITH TWIST LOCK PLUG

48-76-4108 8' QUIK-LOK W/TWIST LOCK PLUG 48-76-4125 25' QUIK-LOK W/TWIST LOCK PLUG



IDEAL FOR ONE PIECE STEEL HAWGTM CUTTER APPLICATIONS See Page 33

HEAVY-DUTY DRILL STANDS FOR PRECISION DRILL PRESS OPERATIONS

FAST MOUNTING OR REMOVAL OF DRILLS . HEAVY-DUTY CONSTRUCTION . CAST HOLES IN BENCH BASE FOR PERMANENT MOUNTING • USE AS A PORTABLE DRILL PRESS BY USING EITHER BENCH BASE OR PIPE CLAMP BASE

BENCH BASE DRILL STAND 120 VOLTS AC 10 AMPS MAX. MAX. LENGTH OF TRAVEL 1-5/8" OR 2-1/2" **LENGTH OF COLUMN 22** NET WGT. 14 LBS. SHP. WGT. 18.5 LBS

3570 PIPE CLAMP BASE **DRILL STAND** 120 VOLTS AC 10 AMPS MAX. MAX. LENGTH OF TRAVEL 1-5/8" OR 2-1/2"

LENGTH OF COLUMN 22 NET WGT. 18 LBS SHP. WGT. 22.5 LBS

> CHAIN CAN HANDLE UP TO 8" PIPE 2" MINIMUM"



BASES

NOTE: BASES ARE INTERCHANGEABLE WITH EITHER STAND

BENCH BASE NO. 48-10-0100 PIPE CLAMP BASE NO. 48-10-0120

ACCESSORIES

NOTE: ALL ACCESSORIES SHOWN BELOW ARE STANDARD EQUIPMENT WITH EITHER DRILL PRESS

NO. 49-96-0060 NO. 49-96-0080 NO. 49-96-0100 NO. 23-78-0150 NO. 42-04-0630 1/8" Hex. Socket Wrench 3/16" Hex. Socket Wrench 1/4" Hex. Socket Wrench Tie Strap

Clamp Adapter for Compact Drills Adapter Ring for Magnum and "D" Handle Drills Adapter Ring for Compact Drills

Milwankee

HEAVY-DUTY HOLE-HAWG®

COMPACT DESIGN FOR DRILLING BETWEEN STUDS AND JOISTS

ALL BALL AND ROLLER BEARINGS
 HEAT TREATED GEARS



TRIPLE REDUCTION GEARING
HANDLES UP TO 4-5/8"
SELFEED BITS.
WEIGHS ONLY
10-1/2 LBS.

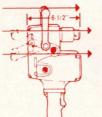


Can Power Up To 2-9/16" Selfeed Bit

1675-1 1200 AND 300 RPM

Can Power Up To 4-5/8" Selfeed Bit in Low Speed Drill With Up To 1-3/8" Selfeed Bit In High Speed

1676-1 (Same as 1675-1 but with steel carrying case)



FUNCTIONAL DESIGN

Puts force in line with chuck

- 2 POSITION PIPE HANDLE
- 3 POSITION SPADE HANDLE
- 2 SPEED GEAR SHIFT (Models 1675-1 Rev. and 1676-1 Rev.)

EXTERNAL BRUSH CAPS



(When ordered separately) NO. 48-55-0110

TYPE "E" GREASE

1 LB. CAN NO. 49-08-4121

HEAVY-DUTY

1610-1 650 RPM

1630-1 900 RPM

1660-1 450 RPM

COMPACT HOLE-SHOOTERS

REVERSING ALL BALL AND ROLLER BEARINGS

RUGGEDLY BUILT, RESERVE POWER for toughest drilling jobs. Gears are helical-cut for quiet performance, heat treated, chrome moly alloy steel for high torque transmission with minimum wear. Drive shafts run smoothly on pre-lubricated ball bearings.

PIPE HANDLE REMOVABLE FOR CLOSE QUARTER DRILLING

 BRUSH DESIGN FOR FAST EASY CHANGE HEAVY-DUTY ALUMINUM ALLOY HOUSING

REPLACEMENT

STRONG, NON-CONDUCTIVE, GLASS FILLED NYLON SPADE AND SWITCH HANDLES

GREASE FOR COMPACT HOLE-SHOOTERS

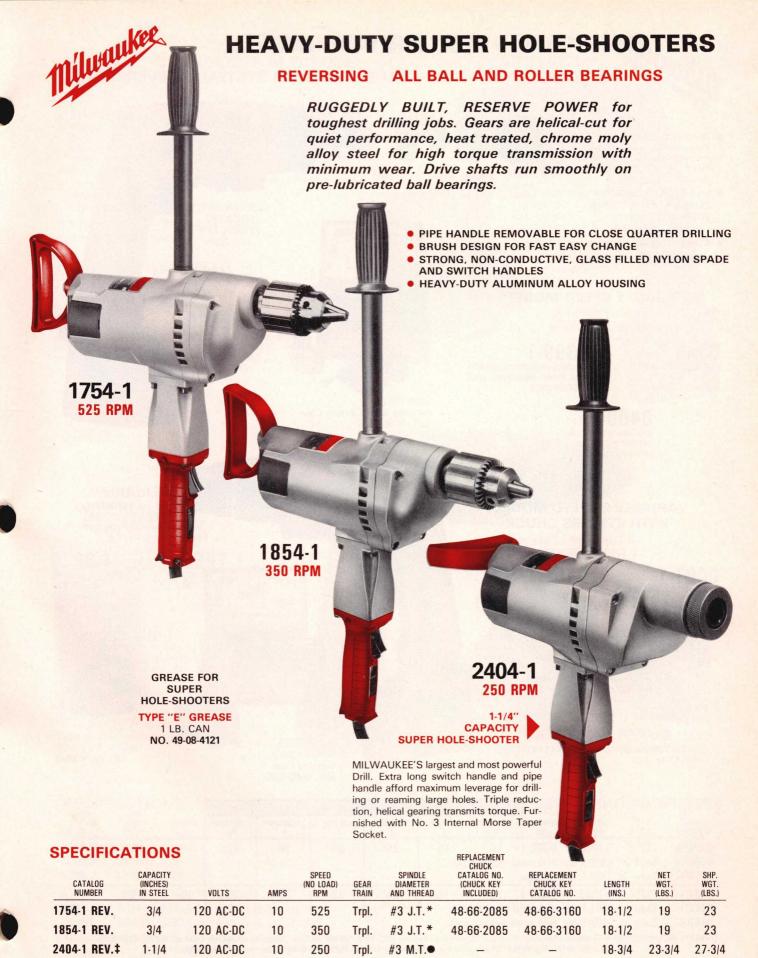
TYPE "A" GREASE 1/2 LB. CAN

NO. 49-08-0500 1 LB. CAN NO. 49-08-0800

SPECIFICATIONS

CATALOG NUMBER	CAPACITY (INCHES) IN STEEL	VOLTS	AMPS	SPEED (NO LOAD) RPM	GEAR TRAIN	SPINDLE DIAMETER AND THREAD	CHUCK CATALOG NO. (CHUCK KEY INCLUDED)	REPLACEMENT CHUCK KEY CATALOG NO.	LENGTH (INS.)	NET WGT. (LBS.)	SHP. WGT. (LBS.)
1670-1 REV.	7/16	120 AC ONLY	7.5	900	Trpl.	5/8"-16	48-66-1381	48-66-3280	6-1/2	10-1/2	16
1675-1 REV.	1/2	120 AC ONLY	7.5	300/1200	Trpl.	5/8"-16	48-66-1381	48-66-3280	6-1/2	10-1/2	16
1676-1 REV.	1/2			Same	as 1675	-1 but with	steel carrying o	ase			24
1610-1 REV.	1/2	120 AC ONLY	7	650	Dbl.	5/8"-16	48-66-1381	48-66-3280	12-1/4	9-1/2	13
1630-1 REV.	1/2	120 AC ONLY	7	900	Dbl.	5/8"-16	48-66-1381	48-66-3280	12-1/4	9-1/2	13
1660-1 REV.★	1/2	120 AC-DC	7	450	Trpl.	5/8"-16	48-66-1381	48-66-3280	12-1/4	9-1/2	13

*Available in 240 Volts AC Only. 240 Volt not available in Canada. Double Insulated. Order Catalog No. 1662-3. "REV." after Catalog No. indicates reversing type motor.



"REV." after Catalog No. indicates reversing type motor.

* Jacobs Taper Spindle.

With No. 3 Internal Morse Taper Socket.

[‡] To adapt a 3/4" capacity chuck to 2404-1 Drill with No. 3 Internal Morse Taper Socket, order accessory Chuck Kit No. 49-22-1550. Kit consists of Chuck No. 48-66-2000 and Arbor No. 48-07-0100.

3/8" DRIVER/DRILLS

Milwankee **VOLTS HI-TORQUE PLANETARY GEAR SYSTEM*** REVERSING

IN LINE DESIGN

Forward drilling pressure is in line with center axis of drill bit for efficient and comfortable drilling.

- **OVERLOAD CAPACITY ELIMINATES NEED FOR** WORK STOPPING CIRCUIT BREAKER
- **6 POSITION ADJUSTABLE CLUTCH**
- 2 SPEED SLIDE SWITCH

VARIABLE 2 SPEED MODELS

0 THRU 350 RPM 0 THRU 1000 RPM

0398 - 1

(INCLUDES DRIVER/DRILL, BATTERY PACK AND SUPER CHARGER

0399-1

(INCLUDES DRIVER/DRILL, BATTERY PACK, SUPER CHARGER AND STEEL CARRYING CASE

0400-1



VARIABLE 2 SPEED MODELS WITH KEYLESS CHUCK

0 THRU 350 RPM 0 THRU 1000 RPM

0401-1

INCLUDES DRIVER/DRILL WITH KEYLESS CHUCK, BATTERY PACK AND SUPER CHARGER)

0402-1

(INCLUDES DRIVER/DRILL WITH KEYLESS CHUCK, BATTERY PACK, SUPER CHARGER AND STEEL CARRYING CASE)

0407-1

(INCLUDES DRIVER/DRILL WITH KEYLESS CHUCK, TWO BATTERY PACKS, SUPER CHARGER AND STEEL CARRYING CASE)

SUPER CHARGER





12 VOLT **BATTERY PACK**

NO. 48-11-0140

SMOOTH,

FAST ACTION,

STANDARD EQUIPMENT NO. 48-59-0166

SPECIF	ICATIO	ONS	MAXIMUM TORQUE RANGE (INLBS.)							NET	SHP.
CATALOG NUMBER	VOLTS DC	SPEED (NO LOAD) RPM HIGH LOW	POSITION 1	POSITION 2	POSITION 3	POSITION 4	POSITION 5	POSITION 6	LENGTH (INS.)	WGT. (LBS.)	WGT. (LBS.)
0398-1 0399-1 0400-1		0-1000 0-350 s 0398-1 but with st s 0398-1, less charge	, ,	18 case.	25	32	39	156	9	3-3/4	7-1/4 14-3/4 4-1/2
0401-1 0402-1 0407-1		0-1000 0-350 s 0401-1 but with sta s 0402-1 but with ex	eel carrying		25	32	39	156	9	3-3/4	7-1/4 14-3/4 16

STANDARD EQUIPMENT: 0398-1: Variable Two Speed 3/8" Driver/Drill, 12 Volt Battery Pack No. 48-11-0140, 120 Volt AC Super Charger No. 48-59-0166. Chuck and Key No. 48-66-0817 (Key only is No. 48-66-3350). 0399-1: Same as 0398-1 plus Steel Carrying Case No. 48-55-1575. 0400-1: Same as 0398-1 less charger.

> 0401-1: Variable Two Speed 3/8" Driver/Drill with Keyless Chuck No. 48-66-0375 , 12 Volt Battery Pack No. 48-11-0140 and 120 Volt AC Super Charger No. 48-59-0166. 0402-1: Same as 0401-1 plus Steel Carrying Case No. 48-55-1575. 0407-1: Same as 0401-1 plus extra 12 Volt Battery Pack No. 48-11-0140.

CORDLESS 3/8" DRIVER/DRILLS

HI-TORQUE PLANETARY GEAR SYSTEM* REVERSING

IN LINE DESIGN

Milwanker

Forward drilling pressure is in line with center axis of drill bit for efficient and comfortable

 OVERLOAD CAPACITY **ELIMINATES NEED FOR** WORK STOPPING CIRCUIT BREAKER

- **6 POSITION ADJUSTABLE CLUTCH**
- 2 SPEED SLIDE SWITCH

VARIABLE 2 SPEED

0 THRU 350 RPM 0 THRU 1000 RPM

0394-1

BATTERY PACK AND SUPER CHARGER) 0395-1

(INCLUDES DRIVER/DRILL, BATTERY PACK, SUPER CHARGER AND CARRYING CASE)

BATTERY PACK,



VARIABLE 2 SPEED WITH KEYLESS CHUCK

0 THRU 350 RPM 0 THRU 1000 RPM

0396-1

(INCLUDES DRIVER/DRILL WITH KEYLESS CHUCK, BATTERY PACK AND SUPER CHARGER)

0397-1

(INCLUDES DRIVER/DRILL WITH KEYLESS CHUCK, BATTERY PACK, SUPER CHARGER AND CARRYING CASE)



NCLUDES DRIVER/DRILL WITH KEYLESS CHUCK, TWO BATTERY PACKS, SUPER CHARGER, AND CARRYING CASE)

SUPER CHARGER

STANDARD EQUIPMENT NO. 48-59-0166



NO. 48-55-0510

SPECIF	ICATIONS	MAXIMUM TORQUE RANGE (INLBS.)							NET	SHP.
CATALOG NUMBER	VOLTS SPEED (NO LOAD) RPM DC HIGH LOW	POSITION 1	POSITION 2	POSITION 3	POSITION 4	POSITION 5	POSITION 6	LENGTH (INS.)	WGT. (LBS.)	WGT. (LBS.)
0394-1 0395-1 0393-1	9.6 0-1000 0-350 Same as 0394-1 but with c Same as 0394-1, less charg	arrying case.	18	25	32	l 39	143	1 9	3-1/2	7 9-1/2 4-1/4
0396-1 0397-1 0406-1	9.6 0-1000 0-350 Same as 0396-1 but with c Same as 0397-1 but with e	arrying case.		25	32	39	143	9	3-1/2	7 9-1/2 10-1/2

STANDARD EQUIPMENT: 0394-1: Variable Two Speed 3/8" Driver/Drill, 9.6 Volt Battery Pack No. 48-11-0080, 120 Volt AC Super Charger No. 48-59-0166. Chuck and Key No. 48-66-0817 (Key only is No. 48-66-3350). 0395-1: Same as 0394-1, plus Carrying Case No 48-55-0510. 0393-1: Same as 0394-1 less charger.

> 0396-1: Variable Two Speed 3/8" Driver/Drill with Keyless Chuck No. 48-66-0375, 9.6 Volt Battery Pack No. 48-11-0080 and 120 Volt AC Super Charger No. 48-59-0166. 0397-1: Same as 0396-1 plus Steel Carrying Case No. 48-55-0510. 0406-1: Same as 0397-1 plus extra 9.6 Volt Battery Pack No. 48-11-0080.

3/8" CORDLESS DRIVER/DRILLS

Milwallkee 3/ 9.6 volts

HI-TORQUE

PLANETARY GEAR SYSTEM*

COMPACT

DESIGN

REVERSING

BUILT-IN

KEY

HOLDER

FOR

CHUCK KEY

EXCELLENT

BALANCE

2 SPEED 350 AND 1000 RPM

0216-1 (INCLUDES DRIVER/DRILL,

0217-1

NO. 48-30-0101)

(INCLUDES DRIVER/DRILL, BATTERY PACK, CHARGER, CARRYING CASE AND DRIVER/DRILL BIT SET * Smooth, efficient torque transmission through PLANETARY GEAR SYSTEM produces up to 143 IN./LBS. TORQUE

• 6 POSITION ADJUSTABLE CLUTCH

2 SPEED SLIDE SWITCH

ON 0218-1 AND 0219-1 ONLY

ELECTRIC BRAKE

ELECTRIC BRAKE immediately stops rotation wi release of trigger switch. Complete control for drivin screws and drilling.

 ELECTRONIC FEEDBACK SYSTEM MAINTAINS A CONSTANT SPEED UNDER VARIOUS LOADS 9.6 VOLT BATTERY PACK NO. 48-11-0080

1 HOUR
FAST CHARGER
STANDARD FOUIPMENT

VARIABLE 2 SPEED

50 THRU 350 RPM 150 THRU 1000 RPM

0218-1

(INCLUDES DRIVER/DRILL, BATTERY PACK AND CHARGER)

BATTERY PACK AND CHARGER)

0219-1 (INCLUDES DRIVER/DRILL, BATTERY PACK, CHARGER, CARRYING CASE AND DRIVER/DRILL BIT SET NO. 48-30-9101)

SPECIFICATIONS

		SPEED (NO LOAD)	MAXIMUM TORQUE RANGE (INLBS.)							NET	SHP.	
CATALOG NUMBER	VOLTS DC	RPM HIGH	LOW	POSITION 1	POSITION 2	POSITION 3	POSITION 4	POSITION 5	POSITION 6	LENGTH (INS.)	WGT. (LBS.)	WGT. (LBS.)
0216-1 0217-1	9.6 Same as	1000 s 0216-1 but	350 t with ca	11 rrying case	18 and bit set	25	32	39	143	8-1/8	3-1/2	7-1/2 9-3/4
0218-1 0219-1	9.6 Same as	150-1000 s 0218-1 but	50-350 t with ca		18 and bit set	25	32	39	143	9-1/2	3-1/2	7-1/2 9-3/4

STANDARD EQUIPMENT: 0216-1: Two speed 3/8" Driver/Drill, 9.6 Volt Battery Pack No. 48-11-0080, 120 Volt AC One Hour Battery Charger No. 48-59-0160, Chuck and Key No. 48-66-0818 (Key only is No. 48-66-3470.) 0217-1: Same as 0216-1 plus Driver/Drill Bit Set No. 48-30-0101 and Carrying Case No. 48-55-0799.

0218-1: Variable-Two Speed 3/8" Driver/Drill, 9.6 Volt Battery Pack No. 48-11-0080, 120 Volt AC One Hour Battery Charger No. 48-59-0160, Chuck and Key No. 48-66-0818 (Key only is No. 48-66-3470). 0219-1: Same as 0218-1 plus Driver/Drill Bit Set No. 48-30-0101 and Carrying Case No. 48-55-0799.

3/8" CORDLESS HOLE-SHOOTERS

1.2 VOLTS

PLANETARY GEAR SYSTEM*

REVERSING

1 HOUR FAST CHARGE

VARIABLE SPEED 0 THRU 600 RPM

0384-1

0385-1

(INCLUDES HOLE-SHOOTER, BATTERY PACK AND 1 HOUR FAST CHARGER)

(INCLUDES HOLE-SHOOTER, BATTERY PACK, 1 HOUR FAST CHARGER AND CARRYING CASE)

VARIABLE SPEED WITH KEYLESS CHUCK

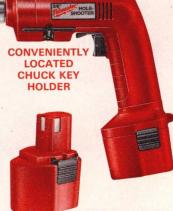
0 THRU 600 RPM

0386 - 1

(INCLUDES HOLE-SHOOTER WITH KEYLESS CHUCK, BATTERY PACK AND 1 HOUR FAST CHARGER) 0387-1

(INCLUDES HOLE-SHOOTER WITH KEYLESS CHUCK, BATTERY PACK, 1 HOUR FAST CHARGER AND CARRYING CASE)





SPECIFICATIONS

0405-1
INCLUDES HOLE-SHOOTER WITH
KEYLESS CHUCK, TWO BATTERY
PACKS, 1 HOUR FAST CHARGER AND
CARRYING CASE)

CATALOG NUMBER	VOLTS	(NO LOAD) RPM	TORQUE (IN./LBS)	LENGTH (INS.)	WGT. (LBS.)	WGT. (LBS.)
0384-1	7.2	0-600	42.4	8-3/8"	2-1/2	4-3/4
0385-1	Same as	0384-1 but wi	th carrying cas	se.		7-1/4
0386-1	7.2	0-600	42.4	8-3/8"	2-1/2	4-3/4
0387-1	Same as	0386-1 but wi	th carrying cas	se.		7-1/4
0405-1	Same as	0387-1 but wi	th extra batter	y pack.		8

STANDARD EQUIPMENT: 0384-1: Variable Speed 3/8" Hole-Shooter, 7.2 Volt Battery Pack No. 48-11-0130, 120 Volt AC One Hour Battery Charger No. 48-59-0210, Chuck and Key No. 48-66-0817 (Key only is No. 48-66-3350). 0385-1: Same as 0384-1 plus Carrying Case No. 48-55-0520.

0386-1: Variable Speed 3/8" Hole-Shooter with Keyless Chuck No. 48-66-0375, 7.2 Volt Battery Pack No. 48-11-0130 and 120 Volt AC One Hour Battery Charger No. 48-59-0210. 0387-1: Same as 0386-1 plus Carrying Case No. 48-55-0520. 0405-1: Same as 0387-1 plus extra 7.2 Volt Battery Pack No. 48-11-0130.

Willker

CORDLESS SCREWDRIVERS

2.4 VOLTS REVERSING 1 HOUR FAST CHARGE

SINGLE SPEED MODELS 190 RPM



6 POSITION
 ADJUSTABLE CLUTCH

 FORWARD/REVERSE BUTTON WITH SWITCH LOCK FEATURE ADJUSTABLE 2 POSITION HANDLE

SINGLE SPEED

190 RPM

6538-1

(INCLUDES SCREWDRIVER, LESS BATTERY PACK AND CHARGER) 6539-1

(INCLUDES SCREWDRIVER, BATTERY PACK AND CHARGER) 6540-1

(INCLUDES SCREWDRIVER, BATTERY PACK, CHARGER, CHUCK ATTACHMENT, DRIVER/DRILL BIT SET NO. 48-30-0101, AND CARRYING CASE)

TWO SPEED

HIGH 400 RPM LOW 200 RPM

6546-1

(INCLUDES SCREWDRIVER, BATTERY PACK AND CHARGER)



2 SPEED MODEL HIGH 400 RPM LOW 200 RPM

2 SPEED SELECTOR SWITCH

decrease forward reverse reverse

SPECIFICATIONS

SPECIFICA	SPECIFICATIONS			MA	XIMUM TORQU	IE RANGE (INI	.BS.)		NET	SHP.
CATALOG NUMBER	VOLTS DC	(NO LOAD) RPM	DIAMETER (INS.)	POSITION 1-2	POSITION 3-4	POSITION 4-5	POSITION 6	LENGTH (INS.)	WGT. (LBS.)	WGT. (LBS.)
6538-1 REV. *	2.4	190	1.4	5	12	16	22	9	10097	.70
6539-1 REV.	2.4	190	1.4	5	12	16	22	9	.875	2.75
6540-1 REV.	2.4	190	1.4	5	12	16	22	9		4.9
6546-1 REV.	2.4	400/200	1.4	3.5	10.5	17.5	26	9-3/8	.875	2.75



2.4 VOLT BATTERY PACK NO. 48-11-0100

STANDARD EQUIPMENT: 6538-1: Screwdriver. 6539-1: Screwdriver, 2.4 Volt Battery Pack No. 48-11-0100, 120 Volt AC One Hour Battery Charger No. 48-59-0180 with 2 Phillips and One Slotted Bit. 6540-1: Same as 6539-1 plus 1/4" Chuck Attachment with Key No. 49-22-1560, Driver/Drill Bit Set No. 48-30-0101 and Carrying Case No. 48-55-0798.

6546-1: Two Speed Screwdriver, 2.4 Volt Battery Pack No. 48-11-0100, 120 Volt AC One Hour Battery Charger No. 48-59-0180 with 2 Phillips and One Slotted Bit.

FOR COMPLETE LIST OF CORDLESS TOOL ACCESSORIES, SEE PAGE 20

ACCESSORIES FOR DRILLS AND DRIVER/DRILLS

Guick Change Chuck for Oritics and Orient Police For Original Police For Ori

QUICK CHANGE CHUCK

NO. 48-03-0005

Converts your 3 jaw chuck into a quick change chuck. Allows rapid, keyless insertion and removal of 1/4" hex shank hits



QUICK CHANGE CHUCK AND SCREWDRIVER BIT SET

NO. 48-30-0105

Includes Quick Change Chuck described above plus 8 of the most popular slotted and phillips screwdriver bits. Packaged in convenient, reusable vinyl sleeve.



3 PIECE SLOTTED BIT AND FINDER SET

NO. 48-30-2705

Includes a 48-30-2600 (6F-8R), 48-30-2625 (8F-10R), and 48-30-2650 (10F-12R) slotted bit and finders with 1/4" hex shank. For use on Cordless Driver/Drills and Power Screwdrivers.



3 PIECE HEX SOCKET DRIVER SET NO. 49-66-3005

Includes a 49-66-3006 (1/4"), 49-66-3016 (5/16") and 49-66-3026 (3/8") hex sockets. Have 1/4" hex shank for use in Cordless Driver/Drills and Power Screwdrivers.

^{*}Unit sold less battery pack. Specifications shown with battery. "REV." after Cat. No. indicates reversing type motor.

CORDLESS TOOL ACCESSORIES











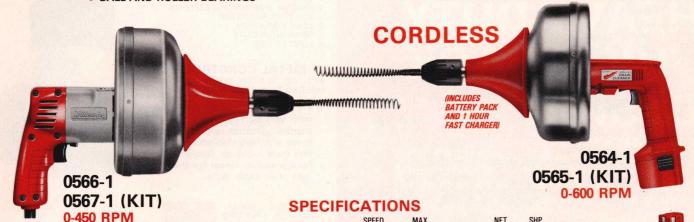
			40 00 01			Annie Marie de			
	12	VOLT Tools		.6 VOLT	S	# 10 mis 7	.2 VOLT	S	2.4 VOLT TOOLS
	0398-1 0399-1 0400-1	0401-1 0402-1 0407-1	0391-1 0392-1 0393-1 0394-1 0395-1	0396-1 0397-1 0406-1	0216-1 0217-1 0218-1 0219-1	0381-1 0382-1 0384-1 0385-1	0386-1 0387-1 0405-1	0214-1	6538-1 6539-1 6540-1 6546-1
Nickel Cadmium Battery	48-11-0140	48-11-0140	48-11-0080	48-11-0080	48-11-0080	48-11-0130	48-11-0130	48-11-0120	48-11-0100
Super Charger	48-59-0166	48-59-0166	48-59-0166	48-59-0166	48-59-0166				
1 Hour Fast Charger			48-59-0160	48-59-0160	48-59-0160	48-59-0210	48-59-0210	48-59-0200	48-59-0180
Lighter Plug Type Charger			48-59-0161	48-59-0161	48-59-0161			48-59-0201	48-59-0181
Polyethylene Carrying Case			48-55-0510	48-55-0510	48-55-0799	48-55-0520	48-55-0520	48-55-0793	48-55-0798
Steel Carrying Case	48-55-1575	48-55-1575	48-55-1575	48-55-1575					
Chuck and Key	48-66-0817	Keyless Chuck 48-66-0375	48-66-0817	Keyless Chuck 48-66-0375	48-66-0818	48-66-0817	Keyless Chuck 48-66-0375	48-66-0817	<mark>49</mark> -22-1560
Key Only	48-66-3350		48-66-3350		48-66-3470	48-66-3350		48-66-3350	48-66-3350
Tool Holster	49-17-0245	49-17-0245	49-17-0245	49-17-0245	49-17-0240	49-17-0242	49-17-0242	49-17-0255	49-17-0251
Battery Holster	49-17-0244	49-17-0244	49-17-0243	49-17-0243	49-17-0243	49-17-0243	49-17-0243		
Belt	49-17-0256	49-17-0256	49-17-0256	49-17-0256	49-17-0256	49-17-0256	49-17-0256	49-17-0256	49-17-0256
Bit Set	48-30-0101	48-30-0101	48-30-0101	48-30-0101	48-30-0101	48-30-0101	48-30-0101	48-30-0101	48-30-0101

Milwankee **HEAVY-DUTY DRAIN CLEANERS**

HOLDS UP TO 35' OF 3/8" OR 50' OF 5/16" INNER CORE CABLE

- QUICK, EASY RODDING OF UP TO 2" WASTELINES
- **KEYLESS CHUCK OFFERS QUICK HAND TIGHTENING AND CABLE FEED**
- BALL AND ROLLER BEARINGS

- RUST RESISTANT ALUMINUM DRUM
- TRIGGER SPEED CONTROL-REVERSING MOTOR PROTECTS CABLE FROM DAMAGE



HEAVY-DUTY INDUSTRIAL/ CONSTRUCTION ON CATALOG NO 66-1 AND 0567-1

SPEED NET SHP. CATALOG (NO LOAD) PIPE SIZE LENGTH WGT WGT VOLTS **AMPS** (LBS.) (LBS.) (INS.) NUMBER I. D. 10-3/4 0.600 2" 17-1/2 6-3/4 0564-1 TOOL ONLY 7.2 DC N/A 7.2 DC N/A 0-600 2" 17-1/2 6-3/4 27 0565-1 KIT 2" 0566-1 TOOL ONLY 120 AC ONLY 1.6 0.45017 7-1/4 10 0.450 2" 17 7-1/4 34 0567-1 KIT 120 AC ONLY 1.6

7.2 VOLT BATTERY NO. 48-11-0130

STANDARD EQUIPMENT: 0565-1 Kit - Includes: 1/4" × 25' Steel Cable No. 48-53-0010, 1/4" Repair Hook No. 49-20-0020, Toilet Trap Guide Holder No. 49-17-0160, Toilet Trap Guide No. 49-13-0010, 7.2 Volt Battery Pack No. 48-11-0130, 120 Volt AC 1 Hour Battery Charger No. 48-59-0210 and Steel Carrying Case No. 48-55-0540. 0564-1 Tool Only-7.2 Volt Battery Pack No. 48-11-0130, 120 Volt AC 1 Hour Battery Charger No. 48-59-0210. Less Carrying Case and Accessories.

> 0567-1 Kit-Includes: 1/4" × 25' Steel Cable No. 48-53-0010, 1/4" Repair Hook No. 49-20-0020, Toilet Trap Guide Holder No. 49-17-0160, Toilet Trap Guide No. 49-13-0010 and Steel Carrying Case No. 48-55-6055. 0566-1 Tool Only-Less Carrying Case and Accessories.

ACCESSORIES FOR MILWAUKEE DRAIN CLEANERS



STEEL CABLE is right-hand wound cable which expands when torque is applied. Designed for feeding through crossbars, down through and around the goose neck, or traps. It eliminates removal of the trap or clean out plug.

STEEL CABLES

- * NO. 48-53-0015 5/16" × 25' Includes repair hook.
- * NO. 48-53-0035 5/16" × 30' Includes repair hook.
- * NO. 48-53-0010 1/4" × 25' Includes repair hook. * NO. 48-53-0030 1/4" × 30' Includes repair hook.

INNER-CORE DROP HEAD CABLE is left-hand wound cable which tightens against center core when torque is applied, making a solid shaft. Once through stoppage, tension on the cable is released, and it becomes flexible again.

INNER-CORE DROP HEAD CABLES

- *** NO. 48-53-0020 5/16"** × **25'** Includes drop head, 3/4" and 1" cutter, socket head screws and wrenches for changing heads.
- *** NO. 48-53-0025 5/16"** × **30'** Includes drop head, 3/4" and 1" cutter, socket head screws and wrenches for changing heads.

NO. 48-53-0040 5/16" × 50' Includes drop head, 3/4" and 1" cutter, socket head screws and wrenches for changing heads.

NO. 48-53-0050 3/8" × 35' Includes drop head, 1" and 1-1/4" cutter, socket head screws and wrenches for changing heads, extraction hook.

*** DROP HEAD PARTS KIT NO. 49-22-2500**

For 5/16" Inner-Core Cable — includes drop head set screw for drop head, socket wrench for drop head, 3/4" cutter, 1" cutter, set screws and socket wrench for cutters.

DROP HEAD PARTS KIT NO. 49-22-2510

For 3/8" Inner Core Cable — includes drop head, set screw for drop head, socket wrench for drop head, 1" and 1-1/4" cutter, set screws and wrench for cutters, extraction hook.



* REPAIR HOOK NO. 49-20-0020 for 1/4" steel cable.

REPAIR HOOK

- * REPAIR HOOK NO. 49-20-0040 for 5/16" steel cable.
- * REPAIR BULB NO. 48-50-0010 for 5/16" inner-core drop head cable. REPAIR BULB NO. 48-50-0020 for 3/8" inner-core drop head cable.
- DROP HEAD ASSEMBLY NO. 49-16-0010 for 5/16" inner-core drop head cable. DROP HEAD ASSEMBLY NO. 49-16-0020 for 3/8" inner-core drop
- head cable. * CUTTER 3/4" NO. 48-38-0050 for 5/16" inner-core drop head cable.
- * CUTTER 1" NO. 48-38-0060 for 5/16" inner-core drop head cable. CUTTER 1" NO. 48-38-0070 For 3/8" inner-core drop head cable.

CUTTER 1-1/4" NO. 48-38-0080 for 3/8" inner-core drop head cable. TYPE "A" GREASE NO. 49-08-0500 1/2 LB. CAN TYPE "A" GREASE NO. 49-08-0800 1 LB. CAN

* Accessories for use with Cordless Drain Cleaner Catalog No. 0564-1 and 0565-1.

Milwankee

HEAVY-DUTY 4/6* SUPER-TOUGH™

BI-METAL HOLE SAWS

FOR GENERAL CONSTRUCTION, PLUMBING, ELECTRICAL, MAINTENANCE

HEAVY-DUTY THICK BACK DESIGN

THICK BACK DESIGN

White Hole Saws are constructed with 3/16" thick steel backs on 1-1/2" diameter and larger. Smaller diameters have backs thicker than 3/16".

Thick backs:

- (1) Eliminate the need for driving plates.
- (2) Prevent drive pin holes from elongating.



HEAVY-DUTY 3/16" THICK STEEL BACK

HIGH ALLOY STEEL BODY

ELECTRON BEAM

HIGH SPEED STEEL TEETH



4/6 Hole Saws are offered in display packaging as well as in space-saving boxes in sizes from 9/16" to 2-1/2". Attractive see-thru plastic display packaging sells itself at point of sale. 2-9/16" to 6" are offered in boxes only.



- 1-1/4" CUTTING DEPTH
- FASTER, AGGRESSIVE CUTTING
- SHATTER RESISTANT
 LESS VIBRATION
- SMOOTHER CUTS
- LONGER LIFE

BI-METAL CONSTRUCTION

HIGH SPEED STEEL TEETH WELDED TO A STEEL BODY

* 4/6 Teeth: A multiple tooth design with varying tooth sets and gullet depths. Deeper gullets provide more efficient chip clearance with less heat build-up. Requires lower feed pressure—ideal for the higher rpm of portable drills.





HOLE DIA. SIZE (INCH)	HOLE DIA. SIZE (MM)	DISPLAY PACKAGING CATALOG NUMBER	BOX PACKAGING CATALOG NUMBER	USE WITH		PIPE EN- TRANCE SIZE	FOR COPPER PIPE SIZE (I.D.)
9/16" 5/8" 11/16"	14 16 17	49-56-0005 49-56-0010 49-56-0015	49-56-0006 49-56-0011 49-56-0016	1			1/8" 1/4" 3/8"
3/4" 13/16"	19 21	49-56-0020 49-56-0025	49-56-0021 49-56-0026	49-56- 6950		3/8"	1/2"
7/8" 15/16" 1"	22 24 25	49-56-0030 49-56-0035 49-56-0040	49-56-0031 49-56-0036 49-56-0041	6960 7000 7010	3/4"	1/2"	3/4"
1-1/16"	27	49-56-0045 49-56-0050	49-56-0046 49-56-0051		1"	3/4"	3/4"
1-3/16" 1-1/4" 1-5/16"	30 32 33	49-56-0055 49-56-0060 49-56-0065	49-56-0056 49-56-0061 49-56-0066	44			1"
1-3/8"	35 37	49-56-0070 49-56-0075	49-56-0071 49-56-0076			1"	
1-1/2" 1-9/16" 1-5/8"	38 40 41	49-56-0080 49-56-0085 49-56-0090	49-56-0081 49-56-0086 49-56-0091	49-56- 6970	1-1/4"		1-1/4"
1-11/16"	43 44	49-56-0095 49-56-0100	49-56-0096 49-56-0101		1-1/2"	1-1/4"	1-1/2"
1-13/16" 1-7/8" 2"	46 48 51	49-56-0105 49-56-0110 49-56-0115	49-56-0106 49-56-0111 49-56-0116	+		1-1/2"	
2-1/16" 2-1/8"	52 54	49-56-0120 49-56-0125	49-56-0121 49-56-0126 49-56-0131	1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1	2"		2"
2-1/4" 2-5/16" 2-3/8"	57 59 60	49-56-0130 49-56-0135 49-56-0140	49-56-0136 49-56-0141		Bless		
2-1/2" 2-9/16" 2-5/8"	64 65 67	49-56-0145	49-56-0146 49-56-0150 49-56-0155		2-1/2"	2"	2"
2.3/4"	70		49-56-0165		2.1/2		
3" 3-1/8" 3-1/4"	76 79 83		49-56-0170 49-56-0175 49-56-0180	49-50 705!		2-1/2"	2-1/2"
3-3/8" 3-1/2"	86 89		49-56-0185 49-56-0190	7130 7140)		
3-5/8" 3-3/4" 3-7/8"	92 95 98		49-56-0195 49-56-0200 49-56-0205	7150	3-1/2"	3"	3-1/2"
4" 4-1/8" 4-1/4"	102 105 108		49-56-0210 49-56-0215 49-56-0220		4"	3-1/2" 3-1/2"	3-1/2" 4"
4-3/8" 4-1/2" 4-3/4"	111 114 121		49-56-0225 49-56-0230 49-56-0235			4"	4"
5" 5-1/2" 6"	127 140 152		49-56-0240 49-56-0245 49-56-0250	-			5"

THREAD SIZE: Sizes 9/16" thru 1-3/16" is 1/2-20. Sizes 1-1/4" thru 6" is 5/8-18.

SEE PAGE 23 FOR ARBORS. ORDER ARBORS SEPARATELY.

Milwaukee

HEAVY-DUTY BI-METAL and CARBIDE TIPPED HOLE SAWS

MILWAUKEE HOLE SAWS PROVIDE AN ECONOMICAL MEANS OF EXTENDING THE USEFUL RANGE OF PORTABLE DRILLS, DRILL PRESSES AND LATHES.



STANDARD (BI-METAL) **CUT TO 1-1/4"**

MILWAUKEE high speed steel Hole Saws are high production tools designed for cutting all machineable materials, including steel, alumi-num, copper, brass, sheet metal, stainless steel, wood or plastics.

							FOR
HOLE	HOLE		CARBIDE-			PIPE	FOR COPPER
DIA.	DIA.	STANDARD	TIPPED			EN-	PIPE
SIZE (INCH)	SIZE (MM)	CATALOG NUMBER	CATALOG NUMBER	USE WITH ARBOR NO.	PIPE	TRANCE	SIZE (I.D.)
5/8"	16	49-56-0620	49-56-0623	ANDUN NU.	TAF	SIZE	1/4"
11/16"	17	49-56-0680	45-50-0025	4			3/8"
3/4"	19	49-56-0750	49-56-0753	10.50	T. BY	3/8"	1/2"
13/16"	21	49-56-0810		49-56- 6950			1/2"
7/8"	22	49-56-0870	49-56-0873	- 6960	3/4"	1/2"	5/8"
15/16"	24 25	49-56-0930 49-56-1000	40 50 4002	7000			214"
1-1/16"	27	49-56-1060	49-56-1003	7010			3/4"
1.1/8"	29	49-56-1120	49-56-1123	L	1"	3/4"	3/4"
1-3/16"	30	49-56-1180	40 00 1120			014	0/4
1-1/4"	32	49-56-1250	49-56-1253	AA		11	1"
1-5/16"	33	49-56-1310		TT			
1-3/8"	35	49-56-1370	49-56-1373			1"	
1-1/2"	38	49-56-1500	49-56-1503	49-56-	1-1/4"		1-1/4"
1-5/8"	41	49-56-1620	49-56-1623	6970			
1-3/4"	44	49-56-1750	49-56-1753		1-1/2"	1-1/4"	1-1/2"
1-7/8"	48	49-56-1870	49-56-1873	-			
2"	51	49-56-2000	49-56-2003			1-1/2"	
2-1/16"	52 54	49-56-2060 49-56-2120	49-56-2123	A STATE OF			
2-1/4"	57	49-56-2250	49-56-2253		2"		2"
2-3/8"	60	49-56-2370	49-56-2373	200			-
2-1/2"	64	49-56-2500	49-56-2503	Mary 16		2"	2"
2-9/16"	65	49-56-2560	10 mm	A. Jan	200		
2-5/8"	67	49-56-2620	49-56-2623		2-1/2"		
2-3/4"	70	49-56-2750	49-56-2753	A TOO STATE	_		
2-7/8"	73 76	49-56-2870 49-56-3000	49-56-2873 49-56-3003	49-56-		2-1/2"	2-1/2"
3-1/8"	79	49-56-3120	43-30-3003	7055		2.1/2	2.1/2
3-1/4"	83	49-56-3250	49-56-3253	7130 7140	3"		
3-3/8"	86	49-56-3370		7150			3"
3-1/2"	89	49-56-3500	49-56-3503		L Site		
3-5/8" 3-3/4"	92 95	49-56-3620 49-56-3750	49-56-3753		2 1/2"	3"	
3-3/4	98	49-56-3870	49-00-3/03		3-1/2"		3-1/2"
4"	102	49-56-4000	49-56-4003	- 12			0 1/2
4-1/8"	105	49-56-4120	3 00 .000			3-1/2"	3-1/2"
4-1/4"	108	49-56-4250	49-56-4253		4"	3-1/2"	4"
4-3/8"	111	49-56-4370	40 50 4500			4"	4"
4-1/2"	114	49-56-4500 49-56-4750	49-56-4503			4"	4"
5"	127	49-56-5000	49-56-5003		-	70 200	
5-1/2"	140	49-56-5500	.5 00 0000	1			5"
6"	152	49-56-6000	49-56-6003				

HOLE SAW	KIT CAT. NO.	SERVICES ARBOR NO.	KIT INCLUDES
ARBOR	48-07-0550	49-56-7130 49-56-7140 49-56-7150	Spring, ball and screws.
KITS	48-07-0575	49-56-7155	Spring, screws and ring.

CARBIDE-TIPPED CUT TO 1-1/4" DEPTH

MILWAUKEE carbide-tipped Hole Saws provide longer life and faster cutting. Not recommended for metal.

- CUTS CERAMIC TILE FLAKERDARD ● FIRERROARD
 - FIBERGLASS WOOD

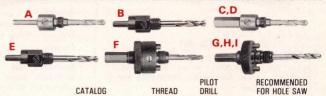


SIZES

1-1/4" and larger

ARBORS

ARBORS AND HOLE SAWS ARE INTERCHANGEABLE WITH MOST OTHER BRANDS



NUMBER 1/4" ROUND SHANK 49-56-6950

1/4" 1/2"-20 9/16" thru 1-3/16"

SIZE

Drill chucks onto pilot drill. For small hole saws in lightweight materials and wood. *

SIZE

1/4" SHANK WITH 3 FLATS 1/4" 49-56-6960 1/2"-20 9/16" thru 1-3/16" Three milled flats prevent slipping in chuck. For small hole saws in medium weight materials and wood.

C 7/16" HEX SHANK 49-56-7000

1/2"-20 1/4" 9/16" thru 1-3/16"

n 3/8" HEX SHANK 49-56-7010

1/2"-20 1/4" 9/16" thru 1-3/16"

Hex shank prevents slipping in chuck. For use with small hole saws in medium to heavy weight materials.

E 1/4" SHANK WITH 3 FLATS 49-56-6970 5/8"-18

1/4" 1-1/4" thru 2" Three milled flats prevent slipping in chuck. For use with 1-1/4" to 2"

hole saws in medium to heavy weight materials.

QUICK CHANGE 7/16" HEX SHANK 1/4" 49-56-7055 5/8"-18

G ECONOMICAL QUICK CHANGE 7/16" HEX SHANK 49-56-7140 5/8"-18 1/4" 1-1/4" and larger

H ECONOMICAL QUICK CHANGE 5/8" HEX SHANK 49-56-7130 5/8"-18 1/4' 1-1/4" and larger

1 ECONOMICAL QUICK CHANGE 3/8" HEX SHANK 1-1/4" and larger 5/8"-18 49-56-7150 1/4" Hex shank prevents slipping in chuck. Pin drive construction permits

fast interchanging of hole saws without removing arbor from chuck. *Arbor Adapter 49-56-6560, Arbor Spacer 49-67-0120 available for use thru 1-1/2" Hole Saw

PILOT DRILLS 1/4" HIGH SPEED PILOT DRILLS

(A,D) (C) E (B)

(A) NO. 49-56-8000 For use with Hole Saw arbors, 49-56-6950, 49-56-7000, 49-56-7055, 49-56-7130, 49-56-7140. For general cutting of wood and metal.

NO. 49-56-8002 With 1/4" fluting for light gauge metals. For use with Hole Saw arbors, 49-56-6950, 49-56-7000, 49-56-7055, 49-56-7130, 49-56-7140.

NO. 49-56-8003 For use with Hole Saw arbors 49-56-6960 and 49-56-6970. For general cutting of wood and metal.

NO. 49-56-8010 For use with Hole Saw Arbors, 49-56-7010 and 49-56-7150. For general cutting of wood and metal

1/4" CARBIDE-TIPPED PILOT DRILL

F

NO. 49-56-8005

For use with carbide-tip Hole Saws when drilling ceramic tile. Use with Hole Saw arbors, 49-56-6950, 49-56-7000, 49-56-7055, 49-56-7130, 49-56-7140.

ONE PIECE 7/16" HEX EXTENSION SHANKS

For Hole Saws, Selfeed Bits and Auger Bits (1" dia. and larger) with 7/16" hex shank

		market 1	REPLACEMENT	REPLACEMENT
	CATALOG NUMBER	LENGTH	SET SCREW CATALOG NO.	SOCKET WRENCH CATALOG NO.
	48-28-4000	5-1/2"	06-83-2620	49-96-0060
SEE PAGE 24	48-28-4005	12"	06-83-2620	49-96-0060
The state of the s	48-28-4010	18"	06-83-2620	49-96-0060
OR HOLE SAW KITS	48-28-4015	24"	06-83-2620	49-96-0060

Milwankee

HEAVY-DUTY HOLE SAW KITS

IDEAL CUTTING TOOLS • POPULAR SIZES • CONVENIENT STORAGE UNITS



7 PIECE 4/6 TOOTH JOB SAVER KIT NO. 49-22-4071

Consists of 7/8", 1", 1-1/8", 1-1/4", 1-1/2" sizes. Arbor No. 49-56-6950, Arbor Spacer No. 49-67-0120, Arbor Adapter No. 49-56-6560 and sturdy Plastic Case.

PLASTIC CASE ONLY NO. 48-55-0782



4/6 TOOTH PLUMBERS' AND **ELECTRICIANS' KIT NO. 49-22-4066**

Consists of 3/4", 7/8", 1-1/8", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2", sizes. Arbors No. 49-56-6950, No. 49-56-7140, Pilot Drill No. 49-56-8000, Arbor Spacer No. 49-67-0120, Arbor Adapter No. 49-56-6560 and sturdy Plastic Case.

PLASTIC CASE ONLY NO. 48-55-0781



17 PIECE 4/6 TOOTH DELUXE **ELECTRICIANS' KIT NO. 49-22-4086**

Consists of 5/8", 3/4", 7/8", 1", 1-1/8", 1-1/4", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/2", 3" sizes. Arbors No. 49-56-7000, 49-56-7140, 3 Pilot Drills No. 49-56-8000 and sturdy Plastic Case.

PLASTIC CASE ONLY NO. 48-55-0784



7 PIECE JOB SAVER KIT NO. 49-22-4070

Consists of 7/8", 1", 1-1/8", 1-1/4", 1-1/2" sizes. Arbor No. 49-56-6950. Arbor Adapter No. 49-56-6560. Arbor Spacer No. 49-67-0120 and sturdy Plastic Case.

PLASTIC CASE ONLY NO. 48-55-0782



13 PIECE PLUMBERS' AND **ELECTRICIANS' KIT**

NO 49-22-4065

Consists of 3/4", 7/8", 1-1/8", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2" sizes. Arbor Nos. 49-56-7140, 49-56-6950, Pilot Drill No. 49-56-8000. Arbor Adapter No. 49-56-6560, Arbor Spacer 49-67-0120 and sturdy Plastic Case.

PLASTIC CASE ONLY NO. 48-55-0781



DELUXE ELECTRICIANS' KIT NO. 49-22-4085

Consists of 5/8", 3/4", 7/8", 1", 1-1/8", 1-1/4", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/2", 3" sizes. Arbors Nos. 49-56-7140, 49-56-7000. 3 of No. 49-56-8000 Pilot Drills and sturdy Plastic Case.

PLASTIC CASE ONLY NO. 48-55-0784



7 PIECE CARBIDE TIPPED JOB SAVER KIT NO. 49-22-4075

Consists of 7/8", 1", 1-1/8", 1-1/4", 1-1/2" sizes. Arbor No. 49-56-6950, Arbor Adapter No. 49-56-6560. Arbor Spacer No. 49-67-0120 and sturdy Plastic Case.

PLASTIC CASE ONLY NO. 48-55-0783

HOLE SAW ARBOR SERVICE KIT

NO 48-07-0575

Consists of springs, screws, ring and pins necessary for replacement on the No. 49-56-7055 arbors.



8 PIECE ELECTRICIANS' KIT NO. 49-22-4050

Consists of 7/8", 1-1/8", 1-1/2", 1-3/4", 2", 2-1/2" sizes. Arbor Nos. 49-56-(7000 and 7140) and Steel

STEEL CASE ONLY NO. 48-55-0760

HOLE SAW ARBOR SERVICE KIT

NO. 48-07-0550

Spring, ball and screws necessary for replacement on the No. 49-56-7130 and No. 49-56-7140 arbors.

NEW RECESSED LIGHT **HOLE SAWS**



For cutting through drywall, plaster, acoustical tile, ceiling tile and stucco with wire mesh backing. 1-3/4" depth of cut. For use with MILWAUKEE Compact Drills or larger drills.

CATALOG NUMBER	HOLE	CATALOG NUMBER	HOLE SIZE	
49-56-0300	4-3/8"	49-56-0310	6-5/8"	
49-56-0305	6-3/8"	49-56-0315	6-7/8"	

HEAVY-DUTY DRILL ACCESSORIES

SELFEED BITS • FASTER CUTTING **IMPROVED BALANCE • REDUCED RUNOUT**



All sizes have removable and replaceable feed screws. Two feed screws furnished with each bit.* Regular and Coarse screws permit selecting the right feed for the material your're drilling. Coarse feed screw provides fast effortless feeding even in gummy woods. Inside cutting plane shaves hole radius for clean smooth holes without pressure.

* CLAM SHELL PACKAGING contains coarse feed screw only.

LARGE SELFEED BITS

Large SELFEED BITS in 3", 3-5/8" and 4-5/8" sizes have double inside cutter blades that shave hole radius for clean smooth holes without pressure. Two feed screws furnished with each bit.

CLAM SHELL PACKAGING CATALOG NUMBER	BOX PACKAGING CATALOG NUMBER	DESCRIPTION	SHANK TYPE	RECOMMENDED WITH DRILL MODELS	FOR STD. PIPE SIZES	· · · · · · · · · · · · · · · · · · ·
48-25-1002 48-25-1122 48-25-1252	48-25-1001 48-25-1121 48-25-1251	1" Dia. 1-1/8" dia. 1-1/4" dia.	3 Milled Flats 3 Milled Flats 3 Milled Flats	For 1/2" Pistol Grip and larger drills	1/2" 3/4"	COARSE THREAD NO. 48-28-6870
48-25-1372 48-25-1502 48-25-1752 48-25-2002	48-25-1371 48-25-1501 48-25-1751 48-25-2001	1-3/8" dia. 1-1/2" dia. 1-3/4" dia. 2" dia.	3 Milled Flats 3 Milled Flats 3 Milled Flats 3 Milled Flats	For 1/2" D-Handle drills and larger drills	1" 1" 1-1/2"	FEED SCREW REGULAR THREAD NO. 48-28-6875
48-25-2122 48-25-2252 48-25-2562	48-25-2121 48-25-2251 48-25-2561	2-1/8" dia. 2-1/4" dia. 2-9/16" dia.	3 Milled Flats 3 Milled Flats 3 Milled Flats	For 1/2" D-Handle drills and larger drills	2"	SOCKET WRENCH NO. 49-96-0060
				except 1001-1 and 1007-		SET SCREW NO. 06-83-2625

NUMBER DESCRIPTION		TYPE		WITH DRILL MODELS				PIPE SIZES	
48-25-3001	3" dia.	3	Milled	Flats	1675-1,	1700-	1 an	d larger	2-1/2"
48-25-3621	3-5/8" dia.	3	Milled	Flats	1675-1,	1700-	1 an	d larger	3″●
48-25-4621	4-5/8" dia.	3	Milled	Flats	1675-1,	1750-	1 an	d larger	4″●
48-07-0201	Replaceable Arbor								
48-28-6880	Feed Screw								
49-96-0070	Socket Wrench								
06-83-3150	Set Screw					Cas	Iron	or Copp	er Pipe Size

7/16" HEX SHANK EXTENSIONS

FOR SELFEED BITS, AUGER BITS AND HOLE SAWS (1" DIA. AND LARGER) WITH 7/16" HEX SHANK.

NO. 49-22-0065

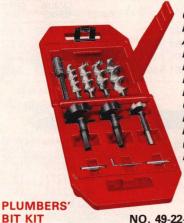
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CATALOG

CATALOG NUMBER	LENGTH	CATALOG NO.	CATALOG NO.
48-28-4000	5-1/2"	06-83-2620	49-96-0060
48-28-4005	12"	06-83-2620	49-96-0060
48-28-4010	18"	06-83-2620	49-96-0060
48-28-4015	24"	06-83-2620	49-96-0060

DECOMMENDED LISE

REPLACEMENT REPLACEMENT



Complete assortment of the most commonly

used MILWAUKEE Bits for BIG HOLE Drilling.

Sizes include 7/8", 1-1/8", 1-1/4", 1-1/2". Auger Bits and famous MILWAUKEE "Selfeed" Bits in 1-3/4", 2-1/8", 2-9/16"

diameters. Also 5-1/2" one piece-shank and

coupling-extension, one coarse and one

regular feed screw pilot, socket wrench, and

CARRYING CASE FOR PLUMBERS' AND CONTRACTORS' BIT KITS IS HI-IMPACT POLYETHYLENE **DOUBLE WALL** CONSTRUCTION FOR FULL **BIT PROTECTION** (No Metal to Metal Contact!)

> **CONTRACTORS'** BIT KIT

NO. 49-22-0130 Complete assortment of the most commonly

used MILWAUKEE Selfeed Bits for BIG HOLE drilling. Sizes include 1", 1-1/8", 1-1/4", 1-1/2", 1-3/4", 2-1/8", 2-9/16" diameters. Also 5-1/2" one piece-shank and coupling-extension, two extra feed screw pilots for each bit (one coarse and one regular), three socket wrenches and carrying case.

CASE ONLY CONTRACTORS' KIT NO. 48-55-0775



4 BIT **CONTRACTORS' BIT KIT**

NO. 49-22-0135

Assortment of MILWAUKEE Selfeed Bits for BIG HOLE drilling. Sizes include 1-3/8", 1-1/2", 2-1/8", 2-9/16" diameters. Also 5-1/2" one piece-shank and coupling-extension, two extra feed screw pilots for each bit (one coarse and one regular), three socket wrenches and carrying case.

CASE ONLY PLUMBERS' KIT NO. 48-55-0790

carrying case.

CASE ONLY

4 BIT CONTRACTORS' BIT KIT NO. 48-55-0775

Milwankee

HEAVY-DUTY DRILL ACCESSORIES

HEAVY-DUTY AUGER BITS



4" TWIST

6-1/2" OVERALL LENGTH

Sizes from 3/4" to 1-1/2"...All 4" twist and 6-1/2" long. 7/16" hex shanks for sure chuck grip. Precision made of special bit steel. Feed screw pilot draws bit into wood. Sharp cutting spurs and lips can be quickly resharpened for fast, efficient production.

SHANK	DIAMETER	CATALOG NUMBER	OVERALL LENGTH	FOR STD. PIPE SIZES
7/16"	3/4"	48-13-0750	6-1/2"	
7/16"	7/8"	48-13-0870	6-1/2"	3/8"
7/16"	1"	48-13-1000	6-1/2"	
7/16"	1-1/8"	48-13-1120	6-1/2"	1/2"
7/16"	1-1/4"	48-13-1250	6-1/2"	3/4"
7/16"	1-3/8"	48-13-1370	6-1/2"	
7/16"	1-1/2"	48-13-1500	6-1/2"	1"

HEAVY-DUTY SHIP AUGER BITS



1/2" or 3/8" SHANK

15" TWIST

18" OVERALL LENGTH

For all types of construction. Precision machined for smooth, wobble free boring. Large, wide throat design gives excellent chip clearance from deep holes. Self feeding screwpoint, with one cutting edge and side lip for fast, rough boring in wood. Hardened cutting edges require less resharpening. 3/8" shank Ship Auger bits can be used with 3/8" D-Handle drill and larger, also fits hand braces. 1/2" D-Handle drills and larger can use all 1/2" shank bits.



1/2" SHANK 4" TWIST 6" OVERALL LENGTH

SHANK	DIAMETER	CATALOG NUMBER	OVERALL LENGTH	SHANK	DIAMETER	CATALOG NUMBER	OVERALL LENGTH	SHANK	DIAMETER	CATALOG NUMBER	OVERALL LENGTH
3/8"	9/16"	48-13-0561	18"	1/2"	9/16"	48-13-5560	18"	1/2"	11/16"	48-13-0683	6"
3/8"	5/8"	48-13-0621	18"	1/2"	5/8"	48-13-5620	18"	1/2"	3/4"	48-13-0753	6"
3/8"	11/16"	48-13-0681	18"	1/2"	11/16"	48-13-5680	18"	1/2"	13/16"	48-13-0813	6"
3/8"	3/4"	48-13-0751	18"	1/2"	3/4"	48-13-5750	18"	1/2"	7/8"	48-13-0873	6"
3/8"	13/16"	48-13-0811	18"	1/2"	13/16"	48-13-5810	18"	1/2"	15/16"	48-13-0933	6"
3/8"	7/8"	48-13-0871	18"	1/2"	7/8"	48-13-5870	18"	1/2"	1"	48-13-1003	6"
3/8"	15/16"	48-13-0931	18"	1/2"	15/16"	48-13-5930	18"	1/2"	1-1/16"	48-13-1063	6"
3/8"	1"	48-13-1001	18"	1/2"	1"	48-13-6000	18"	1/2"	1-1/8"	48-13-1123	6"
				1/2"	1-1/16"	48-13-6010	18"	1/2"	1-1/4"	48-13-1253	6"
				1/2"	1-1/8"	48-13-6120	18"	1/2"	1-3/8"	48-13-1373	6"
				1/2"	1-1/4"	48-13-6250	18"	1/2"	1-1/2"	48-13-1503	6"
				1/2"	1-3/8"	48-13-6370	18"				
				1/2"	1-1/2"	48-13-6500	18"				



HEAVY-DUTY ELECTRICIANS' BITS

6" TWIST 8-1/2" OVERALL LENGTH

A fast spiral, two flute—six inch twist, self feeding bit for any tradesman needing a smooth, clean hole 5/8" to 1-1/4". 5/8"-1" diameter bits have a 5/16" hex shank and 1-1/8"-1-1/4" diameter bits have a 7/16" hex shank.

DIAMETER	NUMBER	LENGTH	DIAMETER	NUMBER	LENGTH
5/8"	48-13-8062	8-1/2"	7/8"	48-13-8087	8-1/2"
11/16"	48-13-8068	8-1/2"	1"	48-13-8100	8-1/2"
3/4"	48-13-8075	8-1/2"	1-1/8"	48-13-8112	8-1/2"
13/16"	48-13-8081	8-1/2"	1-1/4"	48-13-8125	8-1/2"

HEAVY-DUTY BELLHANGER BITS

For installers of all types of small wire systems—computer, security, phone cable, etc. Extra length for extra reach. Pull the wire back through the hole by simply attaching a line or the wire to the bit.

DIAMETER	CATALOG NUMBER	OVERALL LENGTH	DIAMETER	CATALOG NUMBER	OVERALL LENGTH
1/4"	48-13-7125	12"	5/16"	48-13-7231	18"
5/16"	48-13-7131	12"	3/8"	48-13-7237	18"
3/8"	48-13-7137	12"	7/16"	48-13-7243	18"
3/16"	48-13-7218	18"	1/4"	48-13-7325	24"
1///	48.13.7225	19"	3/8"	48.13.7337	24"

HEAVY-DUTY CABLE BITS

Also for installers of small wire systems. Cable Bits are flexible steel shaft bits in 54" and 72" lengths that let you reach unreachable areas behind walls with greater ease and precision. Use of the placement tool accessory (shown at right) is recommended for setting the bit into proper drilling location within the interior of walls. Complete instructions are included.

DIAMETER	CATALOG NUMBER	OVERALL LENGTH	DIAMETER	CATALOG NUMBER	OVERALL LENGTH	
3/8"	48-13-8237	54"	3/8"	48-13-8337	72"	
1/2"	48-13-8250	54"	1/2"	48-13-8350	72"	PLACEMENT
9/16"	48-13-8256	54"	9/16"	48-13-8356	72"	GUIDE TOOL
3/4"	48-13-8275	54"	3/4"	48-13-8375	72"	NO. 48-08-0275

Mulukee

EAVY-DUTY FLAT BORING BITS

PREMIUM QUALITY—HEAT TREATED FOR STRENGTH AND HARDNESS

FLUTED BIT CLEARS CHIPS - BORES CLEANER, FASTER HOLES . FURNISHED WITH HOLE FOR USE IN WIRE PULLING



MILLED FLATS FOR SECURE CHUCK GRIP ● 1/4" to 1-1/2" DIAMETERS

Flat Boring Bits are precision made of high carbon steel for durability and long life. Bore clean holes fast at any angle in wood, plastic, plywood and formica. Drill point and cutting edges can be resharpened often.

DIAMETER	CATALOG NUMBER	SHANK DIAMETER	OVERALL LENGTH	DIAMETER	CATALOG NUMBER	SHANK DIAMETER	OVERALL LENGTH
1/4"	48-27-0251	3/16"	6-3/16"	13/16"	48-27-0811	1/4"	6-1/8"
5/16"	48-27-0311	3/16"	6-3/16"	7/8"	48-27-0871	1/4"	6-1/8"
3/8"	48-27-0371	1/4"	6-1/16"	15/16"	48-27-0941	1/4"	6-3/16"
7/16"	48-27-0441	1/4"	6-1/16"	1"	48-27-1001	1/4"	6-3/16"
1/2"	48-27-0501	1/4"	6-1/8"	1-1/8"	48-27-1121	1/4"	6-3/8"
9/16"	48-27-0561	1/4"	6-1/8"	1-1/4"	48-27-1251	1/4"	6-3/8"
5/8"	48-27-0621	1/4"	6-1/8"	1-3/8"	48-27-1371	1/4"	6-3/8"
11/16"	48-27-0681	1/4"	6-1/8"	1-1/2"	48-27-1501	1/4"	6-3/8"
3/4"	48-27-0751	1/4"	6-3/8"				

FLAT BORING BIT KIT NO. 49-22-0071

Contains 6 popular size flat boring bits in heavy protective plastic. Assortment includes 3/8", 1/2", 5/8", 3/4", 7/8" and 1" sizes in pockets for orderly storage, easy size selection.





12" FLAT BORING BIT EXTENSION NO. 48-28-3350

For 1/4" Shank Flat Boring Bits

16" FLAT BORING BITS

- DEEP DRILL STRAIGHT AND ANGLED HOLES WITHOUT AN EXTENSION
- 3/8" to 1" DIAMETERS
- 1/4" SHANK WITH MILLED FLATS FOR SECURE CHUCK GRIP

DIAMETER	CATALOG NUMBER	SHANK DIAMETER	OVERALL LENGTH	DIAMETER	CATALOG NUMBER	SHANK DIAMETER	OVERALL LENGTH
3/8"	48-27-0372	1/4"	16"	3/4"	48-27-0752	1/4"	16"
1/2"	48-27-0502	1/4"	16"	7/8"	48-27-0872	1/4"	16"
5/8"	48-27-0622	1/4"	16"	1"	48-27-1002	1/4"	16"

HIGH SPEED STEEL STEP DRILL BITS

DRILL UP TO 13 DIFFERENT SIZE HOLES WITH A SINGLE BIT *

MILWAUKEE Step Drill Bit No. 48-89-9100, will make 13 hole sizes from 1/8" to 1/2" dia. in 1/32" increments.

DRILL PERFECTLY ROUND HOLES IN STEEL, BRASS, COPPER, ALUMINUM, WOOD, PLEXIGLASS AND PLASTIC.

HOLE DRILLING APPLICATIONS • Large and small knockouts • Enlarging and deburring holes • Clogfree, meltless PVC drilling

- Auto rustproofing and accessory installations
 Blowing-in home insulation
 Crackfree, chipfree plastic/plexiglass drilling
- Sawing/reaming composition board, soft wood and plasterboard



48-89-9100

48-89-9105

48-89-9115

DOUBLE FLUTE DESIGN FEATURE

Balanced double flute design provides two cutting edges for easier, faster cutting in soft or hard material.

DISPLAY PACKAGING PROVIDES FOR AN INFORMED SELECTION

SELF-STARTING MULTI-HOLE BIT

1/4" shank, 13 hole sizes, make this the perfect all-around bit for most common





48-89-9050

48-89-9125

SELF-STARTING KNOCKOUT

1/4" shank, 1/2" hole. For autobody and electric panel work. Many other uses.



SELF-STARTING MULTI-HOLE BIT

3/8" shank, 12 hole size bit perfect for knockouts.



SELF-STARTING COMBINATION KNOCKOUT

3/8" shank, 3 hole size bit gives increased flexibility for knockout pilots.

HOLE ENLARGING BIT

drilling jobs.

choice for medium size holes.

SELF-STARTING MULTI-HOLE BIT

3/8" shank, 9 hole size, makes this the companion to bit A. Requires 1/2" or larger pilot hole.

3/8" shank, 9 hole sizes makes this a good

SELF-STARTING KNOCKOUT

3/8" shank, drills 7/8" knockouts quickly and easily. Well suited for draw bolt holes for large knockouts and miniature pilot light holes.



SELF-STARTING KNOCKOUT

1/4" shank, 3/8" hole. Well suited for autobody jobs and electric panel work.

SET OF TWO STEP DRILL BITS

Includes 48-89-9100 and 48-89-9110. Gives a range of diameters 1/8" to 1."

	CATALOG		HOLE	SIZES		STEP
	NUMBER	SHANK	MAX.	MIN.	INCREMENTS	THICKNESS
A	48-89-9100	1/4"	1/2"	1/8"	1/32"	1/8"
В	48-89-9105	3/8"	3/4"	1/4"	1/16"	1/8"
C	48-89-9110	3/8"	1"	9/16"	1/16"	1/8"
D	48-89-9115	3/8"	7/8"			
E	48-89-9120	1/4"	3/8"			
F	48-89-9125	1/4"	1/2"	-	_ 2	_
G	48-89-9130	3/8"	7/8"	3/16"	1/16"	1/8"
Н	48-89-9135	3/8"	1-1/8",	7/8", 1/4"	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_
1	48-89-9050	1/4" and 3/8"	1"	1/8"	1/32"-1/16"	1/8"

Milwankee

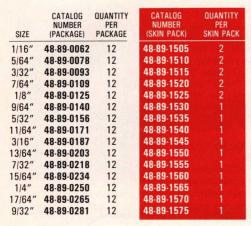
HIGH SPEED STEEL TWIST DRILLS

JOBBERS LENGTH TWIST

- PRECISION GROUND FLUTES
 BLACK OXIDE FINISH
- HIGH SPEED STEEL THROUGHOUT
 118° POINT FOR EASIER STARTING
- CAPABLE OF DRILLING WIDE RANGE OF MATERIALS INCLUDING CAST IRON, STEEL AND STEEL FORGINGS



ATTRACTIVE SEE-THROUGH SKIN PACKAGING



	CATALOG NUMBER	QUANTITY
SIZE	(PACKAGE)	PACKAGE
19/64"	48-89-0296	12
5/16"	48-89-0312	6
21/64"	48-89-0328	6
11/32"	48-89-0343	6
23/64"	48-89-0359	6
3/8"	48-89-0375	6
25/64"	48-89-0390	6
13/32"	48-89-0406	6
27/64"	48-89-0421	6
7/16"	48-89-0437	6
29/64"	48-89-0453	6
15/32"	48-89-0468	6
31/64"	48-89-0484	6
1/2"	48-89-0500	6

CATALOG NUMBER (SKIN PACK)	QUANTITY PER SKIN PACK
48-89-1580	1
48-89-1585	1
48-89-1590	1
48-89-1595	1
48-89-1600	1
48-89-1605	1
48-89-1610	
48-89-1615	
48-89-1620	1
48-89-1625	1
48-89-1630	
48-89-1635	1
48-89-1640	
48-89-1645	1



DRIVER/DRILL BIT SET NO. 48-30-0101

For use with Cordless and Electric Power Drills. The 8 piece set includes 1/4" Socket Driver, 6F-7R Slotted Bit, #1 and #2 Phillips Bit, 1/4" and 3/16" Twist Bits and two 1/8" Twist Bits.

JOBBERS LENGTH TWIST DRILL SETS

Available in steel "organizer" cases with folding, holding trays which have permanently marked drill sizes.



PIECE SET

NO. 48-89-0030 has one folding, holding tray. Sizes 1/16" to 1/4" by 64ths. Case only, NO. 48-55-0787



NO. 48-89-0020 has two folding, holding trays. Sizes 1/16" to 1/2" by 32nds. Case only, NO. 48-55-0786



PIECE SET

NO. 48-89-0015 has two folding, holding trays. Sizes 1/16" to 3/8' by 64ths. Case only, NO. 48-55-0788



PIECE SET

NO. 48-89-0010 has three folding, holding trays. Sizes 1/16" to 1/2" by 64ths. Case only, NO. 48-55-0785

IDEAL FOR TOUGH ALLOYS INCLUDING: STAINLESS STEEL, HEAT TREATED MATERIALS, TITANIUM, AND OTHER HARD TO DRILL ALLOYS • 135° SPLIT POINT FOR EASY

STARTING ON HARD MATERIALS • ABRASIVE AND HEAT RESISTANT OUANTITY

SIZE	CATALOG NUMBER	PER SLEEVE	SIZE	CATALOG NUMBER	PER SLEEVE	SIZE	CATALOG NUMBER	PER SLEEVE
1/16"	48-89-1705	2	7/32"	48-89-1755	1	3/8"	48-89-1805	1
5/64"	48-89-1710	2	15/64"	48-89-1760	1	25/64"	48-89-1810	1
3/32"	48-89-1715	2	1/4"	48-89-1765	1	13/32"	48-89-1815	1
7/64"	48-89-1720	2	17/64"	48-89-1770	1	27/64"	48-89-1820	1
1/8"	48-89-1725	2	9/32"	48-89-1775	1	7/16"	48-89-1825	1
9/64"	48-89-1730	1	19/64"	48-89-1780	1	29/64"	48-89-1830	1
5/32"	48-89-1735	1	5/16"	48-89-1785	1	15/32"	48-89-1835	1
11/64"	48-89-1740	1	21/64"	48-89-1790	1	31/64"	48-89-1840	1
3/16"	48-89-1745	1	11/32"	48-89-1795	1	1/2"	48-89-1845	1
13/64"	48.89.1750	1	23/64"	48.89.1800	1			



PIECE COBALT SET

NO. 48-89-0025 has two folding, holding trays. Sizes 1/16" to 1/2" by 32nds.

HIGH SPEED STEEL TWIST DRILLS

PRECISION GROUND FLUTES FOR ACCURATE HOLE SIZES • BLACK OXIDE FINISH

Milwankee 1/2" SHANK TWIST DRILLS SILVER AND DEMING



 1/2" STRAIGHT SHANK WITH 3 MILLED FLATS
 HIGH SPEED STEEL
 ALL DRILLS ARE 6" LONG WITH 3" FLUTE. • RECOMMENDED FOR USE WITH DRILL PRESS ONLY



PACKED 1 BIT PER PACKAGE

NUMBER	SIZE	CATALOG NUMBER	SIZE	CATLOG NUMBER	SIZE	CATALOG NUMBER	SIZE
48-89-0531	17/32"	48-89-0687	11/16"	48-89-0843	27/32"	48-89-1000	1"
48-89-0562	9/16"	48-89-0718	23/32"	48-89-0875	7/8"	48-89-1031	1-1/16"
48-89-0593	19/32"	48-89-0750	3/4"	48-89-0906	29/32"	48-89-1125	1-1/8"
48-89-0625	5/8"	48-89-0781	25/32"	48-89-0937	15/16"	48-89-1187	1-3/16"
48-89-0656	21/32"	48-89-0812	13/16"	48-89-0968	31/32"	48-89-1250	1-1/4"



8 PIECE SET SILVER AND DEMING

NO. 48-89-0035 has one folding, holding tray. Sizes 9/16" to 1" by 16ths. 1/2" straight shank with 3 milled flats recommended for use only in drill press application. Case only, NO. 48-55-0789.

DOUBLE END TWIST DRILL



- CATALOG NUMBER CATALOG SI7F SI7F NUMBER 48-89-8109 7/64" 48-89-8218 7/32" 48-89-8125 1/8" 48-89-8250 1/4" 48-89-8140 9/64" 48-89-8011 (No. 11) 48-89-8156 5/32" 48-89-8020 (No. 20) 48-89-8187 48-89-8030
- ECONOMICAL DOUBLE END BIT FOR DRILLING A WIDE RANGE OF MATERIALS INCLUDING SHEET METAL, CAST MALLEABLE IRON, METAL AND WOOD
- 135° SPLIT POINT
- LENGTHS APPROXIMATELY 2" TO 2-3/8"

DOUBLE END TWIST DRILL SET

NO. 48-89-0040



Contains one each of bits listed in chart at left. Vinyl Pouch with compartments

STUB LENGTH TWIST DRILLS



- SELF-CENTERING POINT "GUIDE START"
 135° SPLIT POINT PREVENTS DRILL FROM WALKING
- IDEAL FOR USE BY HEATING AND AIR CONDITIONING, AUTO BODY SHOPS AND SHEET METAL WORKERS

PACKED 12 AND 6 PER PACKAGE. SEE CHARTS BELOW.

CATALOG NUMBER (PACKAGE)	SIZE	PER PKG.	OVERALL LENGTH (INS.)	CATALOG NUMBER (PACKAGE)	SIZE	PER PKG.	OVERALL LENGTH (INS.)	NUMBER (PACKAGE)	SIZE	PER PKG.	OVERALL LENGTH (INS.)	NUMBER (PACKAGE)	SIZE	PER PKG.	UVERALL LENGTH (INS.)
48-89-0064	1/16"	12	1-5/8	48-89-0173	11/64"	12	2-1/8	48-89-0283	9/32"	12	2-11/16	48-89-0408	13/32"	6	3-5/16
48-89-0080	5/64"	12	1-11/16	48-89-0189	3/16"	12	2-3/16	48-89-0298	19/64"	12	2-3/4	48-89-0423	27/64"	6	3-3/8
48-89-0095	3/32"	12	1-3/4	48-89-0205	13/64"	12	2-1/4	48-89-0314	5/16"	6	2-13/16	48-89-0439	7/16"	6	3-7/16
48-89-0111	7/64"	12	1-13/16	48-89-0220	7/32"	12	2-3/8	48-89-0345	11/32"	6	3	48-89-0455	29/64"	6	3-9/16
48-89-0127	1/8"	12	1-7/8	48-89-0236	15/64"	12	2-7/16	48-89-0361	23/64"	6	3-1/16	48-89-0470	15/32"	6	3-5/8
48-89-0142	9/64"	12	1-15/16	48-89-0252	1/4"	12	2-1/2	48-89-0377	3/8"	6	3-1/8	48-89-0502	1/2"	6	3-3/4
48-89-0158	5/32"	12	2-1/16	48-89-0267	17/64"	12	2-5/8	48-89-0392	25/64"	6	3-1/4				

NOTE: LUBRICATE DRILL BITS WITH CUTTING OIL WHEN DRILLING IRON OR STEEL. USE A COOLANT WHEN DRILLING NON-FERROUS METALS SUCH AS COPPER, BRASS OR ALUMINUM, ALWAYS WEAR SAFETY GLASSES.

HEAVY-DUTY WIRE BRUSHES

1/4" SHANK DIA. • USE WITH PORTABLE ELECTRIC DRILLS



STRAIGHT END **CARBON WIRE-CRIMPED**

For I.D. pipe cleaning, removing hard carbon deposits on piston heads, cylinders, valve seats and recesses. Also for deburring and rubber flash removal.

CATALOG NO.	48-52-1000	48-52-1010	48-52-1020
FACE DIAMETER	1/2"	3/4"	1"
WIRE SIZE	.010	.014	.020
WIRE LENGTH	1"	1"	1"
MAXIMUM SAFE FREE SPEED	12,000	12,000	12,000



STRAIGHT END **CARBON WIRE-KNOT**

For heavy burr and scale removal, cleaning rust, castings, paint build up around studs-bolts. Remove heavy carbon in automotive use.

18-52-1040
1-1/8"
.014
1"
19,000



CUP FLARED CIRCULAR END BRUSH **CARBON WIRE-CRIMPED**

Concave shape provides efficient side cleaning-eliminates scoring of bottom in blind holes. Efficient external or internal brushing.

48-52-10
2-1/2"
.014
9/16"
19,000

CARBIDE-TIP MASONRY BITS

PACKAGED IN DURABLE VINYL SLEEVES

SPECIAL FEATURES

- Alloy steel shank for strength and durability
- Shallow precision machined oval flutes prevent dust packing
- Carbide-tip...the hardest metal made...brazed to alloy steel bodies

Drills masonry, brick, stone, plaster, slate. Wide, spiral flutes lift dust out of hole. Bit cuts at maximum efficiency without clogging. Produces clean, accurately sized holes fast. Carbide tip resists dulling.





DIAMETER	CATALOG NUMBER
1/8"	48-87-0120
3/16"	48-87-0180
1/4"	48-87-0250
5/16"	48-87-0310
3/8"	48-87-0370

(Allena



ONE PIECE DESIGN (1/8" THRU 7/8")



TWO PIECE DESIGN (1" THRU 1-1/2")

Shank is 1/2" hex with 1/2"-13 thread... nut serves as bit shoulder



EXTRA LENGTH BIT

• (1/4" NO. 48-87-0251 and 1/2" NO. 48-87-0502)

Narrow lands and fast spiral for rapid dust removal

DIAMETER	CATALOG NUMBER	SHANK DIA.	OVERALL BIT LENGTH
1/8"	48-87-0120	1/8"	3"
5/32"	48-87-0150	5/32"	3"
11/64"	48-87-0170	11/64"	3"
3/16"	48-87-0180	3/16"	3"
7/32"	48-87-0210	3/16"	3"
1/4"	48-87-0250	1/4"	4"
1/4"	48-87-0251	1/4"	12"
1/4"	48-87-0253	1/4"	6"
9/32"	48-87-0280	1/4"	4"
5/16"	48-87-0310	1/4"	4"
3/8"	48-87-0370	1/4"	4"
7/16"	48-87-0430	1/4"	6"
1/2"	48-87-0500	3/8"	6"
1/2"	48-87-0502	3/8"	18"
9/16"	48-87-0560	3/8"	6"
5/8"	48-87-0620	1/2"	-6"
11/16"	48-87-0680	1/2"	6"
3/4"	48-87-0750	1/2"	6"
7/8"	48-87-0870	1/2"	6"
1"	48-87-1000	1/2"	12"
1-1/8"	48-87-1120	1/2"	12"
1-1/4"	48-87-1250	1/2"	12"
1-1/2"	48-87-1500	1/2"	12"
 Extra len 	igth bit		

INDUSTRIAL DRILL CHUCKS



INDUSTRIAL CHUCKS



CHUCK KEYS



RUBBER FLEX KEY HOLDERS



3/8" and 1/2" KEYLESS POWER CHUCK



3/8" KEYLESS

CHUCKS FOR REVERSING DRILLS (Chuck Key Included)

CHUCK CATALOG NUMBER	CAPACITY	THREAD SIZE	CHUCK KEY CATALOG NUMBER	KEY HOLDER CATALOG NUMBER
48-66-0070	1/4"	3/8"-24	48-66-3200	48-66-4080
48-66-0104	1/4"	1/2"-20	48-66-3200	48-66-4080
48-66-0224	3/8"	1/2"-20	48-66-3280	48-66-4040
48-66-0230	1/4"	#1 Taper	48-66-3200	48-66-4080
48-66-0240	3/8"	#2 Taper	48-66-3080	48-66-4040
48-66-0795	3/8"	3/8"-24	48-66-3240	48-66-4040
48-66-0805	3/8"	3/8"-24	48-66-3080	48-66-4040
48-66-0817	3/8"	3/8"-24	48-66-3350	
48-66-0818	3/8"	3/8"-24	48-66-3470	-
48-66-1360	1/2"	1/2"-20	48-66-3280	48-66-4040
48-66-1365	1/2"	1/2"-20	48-66-3280	48-66-4040
48-66-1381	1/2"	5/8"-16	48-66-3280	48-66-4040
48-66-1480	1/2"	#6 Taper	48-66-3120	48-66-4020
48-66-1680	5/8"	#3 Taper	48-66-3120	48-66-4020
48-66-2000	3/4"	#3 Taper	48-66-3160	48-66-4020
48-66-2080	3/4"	#3 Taper	48-66-3160	48-66-4020
48-66-2085	3/4"	#3 Taper	48-66-3160	48-66-4020
48-66-2100	1/2"	3/8"-24	48-66-3480	48-66-4040

Chuck Removal Wedges required (Set of 2)
 For 1/4" Drill—#1 Jacobs Taper No. 49-91-0010
 For 3/8" Drill—#2 Jacobs Taper No. 49-91-0020

CHUCKS FOR NON-REVERSING DRILLS (Chuck Key Included)

CHUCK CATALOG NUMBER	CAPACITY	THREAD SIZE	CHUCK KEY CATALOG NUMBER	KEY HOLDER CATALOG NUMBER
48-66-0500	5/16"	3/8"-24	48-66-3240	48-66-4040
48-66-0540	5/16"	1/2"-20	48-66-3240	48-66-4040
48-66-2040	3/4"	5/8"-16	48-66-3160	48-66-4020

KEYLESS CHUCKS FOR REVERSING DRILLS

48-66-2030	3/8"	3/8"-24	
48-66-2020	1/2"	1/2"-20	
KEYLESS CHUCK			
48-66-0375	3/8"	3/8"-24	

NEW KEYLESS CHUCK FOR REVERSING MAGNUM HAMMER-DRILLS



1/2" KEYLESS CHUCK (For Magnum Hammer-Drills)

BULK CHUCK KEYS AND KEY HOLDERS

CATALOG	NUN CARDED
NUMBER	DESCRIPTION
48-66-3201	25 Pack for 1/4" Chuck with 7/32" Pilot
48-66-3081	25 Pack for 3/8" Chuck with 1/4" Pilot
48-66-3241	25 Pack for 3/8" Chuck with 15/64" Pilot
48-66-3281	25 Pack for 3/8" and 1/2" Chuck with 1/4" Pilot
48-66-4041	25 Pack Chuck Key Holders
48-66-4081	25 Pack Chuck Key Holders



QUICK CHANGE CHUCK

NO. 48-03-0005

Converts your 3 jaw chuck into a quick change chuck. Allows rapid, keyless insertion and removal of 1/4" hex shank bits. Quick change chuck comes display packaged with instructions.

SDS/CHUCK ADAPTER KIT NO. 48-66-1370 FOR USE ON ROTARY HAMMERS SHOWN ON PAGES 44 AND 45

KIT includes all items listed below.



Parts in KIT may be ordered separately.
Use part numbers listed below.

CHUCK ADAPTER NO. 48-03-3005

1/2" CHUCK NO. 48-66-1365 Includes Chuck Key NO. 48-66-3280

CHUCK SCREW NO. 06-75-3150 Left Hand Thread

CHUCK KEY NO. 48-66-3280 **HEAVY-DUTY ELECTROMAGNETIC DRILL PRESSES**

> 120 VOLT AC ONLY 12.5 AMPS MAXIMUM RATING

> > **DRILL STAND NO. 4201**

SHOWN WITH NO. 4253-1 DRILL

MOTOR

HEAVY-DUTY INDUSTRIAL/ CONSTRUCTION

ELECTRONICS

4232-1

COMBINED UNIT: SMALL BASE STAND NO. 4202 AND DRILL MOTOR NO. 4262-1

SEE CHART BELOW FOR STAND AND MOTOR SPECIFICATIONS

SPEED CONTROL

- INCREASED HOLDING POWER FOR MATERIALS AS THIN AS **1/2" PLATE**
- UP TO 1670 LB. DRILL POINT PRESSURE ON 1" STEEL PLATE§
- 9" DRILL TRAVEL

NO. 4232-1 Combined Unit Shipping Weight 71 lbs.

STEEL HAWGTM **METAL CUTTERS** See page 33



4201

SMALL BASE STAND ONLY SELECT DRILL MOTOR FROM CHART BELOW

DRILL STAND NO. 4202 SHOWN WITH NO. 4297-1 **DRILL MOTOR**

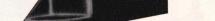
Milwankee

4202

SMALL BASE STAND ONLY SELECT DRILL MOTOR FROM CHART BELOW

• SPEED CONTROL

- **INCREASED HOLDING POWER** FOR MATERIALS AS THIN AS **1/2" PLATE**
- 4 COMBINATIONS AVAILABLE
- **UP TO 1670 LB. DRILL POINT** PRESSURE ON 1" STEEL PLATE§
- 9" DRILL TRAVEL



- 4 COMBINATIONS AVAILABLE
- 1470 LB. DRILL POINT PRESSURE **MAXIMUM ON 1" STEEL PLATE§**
- 9" DRILL TRAVEL

ADDITIONAL MODELS SHOWN ON PAGE 32

SPECIFICATIONS

DRILL			SELE	CT DRILL N	OTOR FRO	M SPECII	ICATION CHA	RT TO MEET	YOUR	REQUIRE	MENTS	STAND 4202	STAND 4201	NET	COMB. NET WGT.
MOTOR CATALOG NUMBER	VOLTS AC	AMPS	CAPA DRILL	CITY * TAP	NO LOAD RPM	CHUCK OR TAPER	REPLACEMENT CHUCK CATALOG NUMBER	REPLACEMENT CHUCK KEY CATALOG NUMBER	DRILL HT.	STAND DIMEN	NSIONS L.	§ DRILL POINT PRESSURE LBS.	§ DRILL POINT PRESSURE LBS.	WGT. STAND ONLY LBS.	STAND AND DRILL LBS.
♦ 4253-1 REV. ●	120	6.2	1/2"	5/8"-18‡	600	Chuck	48-66-1360	48-66-3280	15"	4-1/4"	11"	1650	1450	41	49
4262-1 REV.	120	11.5	3/4"	1"-14	350	Chuck	48-66-2085	48-66-3160	15"	4-1/4"	11"	1670	1470	41	62
4292-1 REV. ■	120	11.5	1-1/4"	1"-14	750/375	No. 3MT	45-34-0050	#3 TAPER	15"	4-1/4"	11"	1600	1410	41	65
4297-1 REV. ■	120	11.5	1-1/4"	1"-14	500/250	No. 3MT	45-34-0050	SOCKET	15"	4-1/4"	11"	1600	1410	41	65

♦Not available in Canada. "REV." after Catalog Number indicates reversing motor.

■ Two speed drills § Maximum pull on 1" steel plate, less on thinner sheets or irregular surfaces.

• Drills except No. 4253-1 have dual mount gear case permitting reverse mounting of drill for close quarter work.

‡ 5/8"-11 or 1/2"-13 taps not recommended.

▲ NOTE...To adapt a 3/4" capacity chuck to 1-1/4" Drills with No. 3 internal Morse Taper Socket specify Chuck and Arbor Kit No. 49-22-1550, which consists of Chuck No. 48-66-2000 and Arbor No. 48-07-0100. Extend chuck capacity to full drill capacity by using 1/2" reduced Shank Twist Drills illustrated on page 29.

* See page 33 for Steel HawgTM Cutter capacities.

TYPE "A" GREASE FOR MODEL 4253-1

NO. 49-08-0500 1/2 LB. CAN NO. 49-08-0800 1 LB. CAN

TYPE "E" GREASE FOR MODELS 4262-1, 4292-1 and 4297-1 NO. 49-08-4121 1 LB. CAN

6' LENGTH SAFETY CHAIN NO. 48-58-0080

Same as furnished with unit.

HEAVY-DUTY ELECTROMAGNETIC DRILL PRESSES 120 VOLT AC ONLY

12.5 AMPS MAXIMUM RATING

HEAVY-DUTY INDUSTRIAL/ CONSTRUCTION ELECTRONICS

4233-1

COMBINED UNIT: **ADJUSTABLE BASE STAND NO. 4231** AND DRILL MOTOR NO. 4297-1

SEE CHART BELOW FOR STAND AND MOTOR SPECIFICATIONS

- 11" DRILL TRAVEL
- 1915 LB. DRILL POINT PRESSURE MAXIMUM ON 1" STEEL PLATE§

NO. 4233-1 Combined Unit Shipping Weight 95 Lbs.

STEEL HAWGTM METAL CUTTERS

.

See page 33

LARGE BASE STAND ONLY

SELECT DRILL MOTOR FROM CHART BELOW 4 COMBINATIONS

- **AVAILABLE**
- 11" DRILL TRAVEL
- 2000 LB. DRILL POINT PRESSURE MAXIMUM ON 1" STEEL PLATES

4231 **ADJUSTABLE BASE**

STAND ONLY SELECT DRILL MOTOR FROM CHART BELOW

DRILL STAND NO. 4231

SHOWN WITH NO. 4292-1 **DRILL MOTOR**

> NO. 4231 IS ADJUSTABLE 3/4" IN DIRECTION OF BASE LENGTH AND 20° RIGHT OR LEFT

- **4 COMBINATIONS AVAILABLE**
- 11" DRILL TRAVEL
- 2000 LB. DRILL POINT PRESSURE MAXIMUM ON 1" STEEL PLATE§

STAND

STAND

			S	ELECT DR	ILL MOTOR	CTA COLLEGE	PECIFICATION			JR REQU	IREME	NTS	4:	COMB.	A SECTION	COMB. NET
DRILL MOTOR CATALOG NUMBER	VOLTS AC	AMPS	CAPAC DRILL	ITY▲ *	NO LOAD RPM	CHUCK OR TAPER	REPLACEMENT CHUCK CATALOG NUMBER	REPLACEMENT CHUCK KEY CATALOG NUMBER	DRII HT.	LL STAND DIF W.	MENSIONS L.	§ DRILL POINT PRESSURE LBS.	NET WGT. STAND ONLY LBS.	WGT. STAND AND DRILL LBS.	NET WGT. STAND ONLY LBS.	WGT. STAND AND DRILL LBS.
♦ 4253-1 REV.●	120	6.2	1/2"	5/8"-18‡	600	Chuck	48-66-1360	48-66-3280	17-1/4"	5-1/4"	14"	1975	58	65	60	67
4262-1 REV.	120	11.5	3/4"	1"-14	350	Chuck	48-66-2085	48-66-3160	17-1/4"	5-1/4"	14"	2000	58	79	60	81
4292-1 REV.■	120	11.5	1-1/4"	1"-14	750/375	No. 3MT	45-34-0050	#3 TAPER	17-1/4"	5-1/4"	14"	1915	58	82	60	84
4297-1 REV.■ ♦Not available in 0	120 Canada.	11.5 "REV."	1-1/4" after Cat		500/250 reversing type	No. 3MT	45-34-0050	SOCKET	17-1/4"	5-1/4"	14"	1915	58	82	60	84

■ Two speed drills § Maximum pull on 1" steel plate, less on thinner sheets or irregular surfaces.

• Drills except No. 4253-1 have dual mount gear case permitting reverse mounting of drill for close quarter work.

REFER

‡ 5/8"-11 or 1/2"-13 taps not recommended.

DRILL STAND NO. 4221

SHOWN WITH

DRILL MOTOR

NO. 4262-1

▲ NOTE...To adapt a 3/4" capacity chuck to 1.1/4" Drills with No. 3 internal Morse Taper Socket specify Chuck and Arbor Kit No. 49-22-1550, which consists of Chuck No. 48-66-2000 and Arbor No. 48-07-0100. Extend chuck capacity to full drill capacity by using 1/2" reduced Shank Twist Drills illustrated on page 29.

* See page 33 for Steel HawgTM Cutter capacities.

TYPE "A" GREASE FOR MODEL 4253-1

NO. 49-08-0500 1/2 LB. CAN NO. 49-08-0800 1 LB. CAN

TYPE "E" GREASE FOR MODELS 4262-1, 4292-1 and 4297-1 NO. 49-08-4121 1 LB. CAN

6' LENGTH SAFETY CHAIN NO. 48-58-0080 Same as furnished with unit.

HEAVY-DUTY STEEL HAWG™CUTTERS

LARGE HOLE CUTTERS MAXIMUM 2" DEPTH, UP TO 6" DIAMETER FOR STEEL PLATE, STAINLESS STEEL, CAST IRON OR ALUMINUM

FOR USE WITH MILWAUKEE ELECTROMAGNETIC DRILL PRESSES AND DRILL STANDS★

3 TIMES FASTER THAN TWIST DRILLS IN STEEL, STAINLESS, NON-FERROUS

MOTOR RECOMMENDATIONS FOR PORTABLE USE OF STEEL HAWGTM CUTTERS WHEN CUTTING MILD STEEL USING MILWAUKEE MAG-NETIC DRILL STANDS

One Piece STEEL HAWG™ CUTTERS 1/2" Cutting Depth, 1/2" Shank

DRILL MOTOR A CATALOG NO.	CHUCK CAPACITY	W/ONE PIECE STEEL HAWGTM CUTTER
4253-1	1/2"	11/16"-1-1/2"
4262-1	3/4"	11/16"-1-1/2"
4292-1	#3MT★	11/16"-1-1/2"
4297-1	#3MT★	11/16"-1-1/2"

See pages 31 and 32 for drill motor specifications ▲ See pages 31 and 32 for drill motor specifications.

★ Requires use of Chuck and Arbor Kit No. 49-22-1550.

2" Cutting Depth STEEL HAWG™ CUTTERS with Separate Arbor

DRILL MOTOR A CATALOG NO.	CHUCK CAPACITY	W/2" DEPTH STEEL HAWGTM CUTTER
4262-1	3/4″●	3/4"-4"
4292-1	#3MT★	3/4"-4"
4297-1	#3MT★	3/4"-5"

▲ See pages 31 and 32 for drill motor specifications
• Requires use of 3/4" Shank Arbor No. 49-57-0030.
★ Requires use of #3MT Arbor No. 49-57-0010.

SELECT STAND AND MOTOR COMBINATIONS FROM PAGES 31, 32

ONE PIECE STEEL HAWG™ CUTTERS 1/2" Cutting Depth

SIZES 11/16" thru 1-1/2"

Recommended for use with MILWAUKEE Electromagnetic Drill Presses and Drill Stands *



CATALOG NUMBER	CUTTER SIZE	CATALOG NUMBER	CUTTER SIZE
49-57-8068	11/16"	49-57-8112	1-1/8"
49-57-8075	3/4"	49-57-8118	1-3/16"
49-57-8081	13/16"	49-57-8125	1-1/4"
49-57-8087	7/8"	49-57-8131	1-5/16"
49-57-8093	15/16"	49-57-8137	1-3/8"
49-57-8100	1"	49-57-8143	1-7/16"
49-57-8106	1-1/16"	49-57-8150	1-1/2"



CARBIDE TIPPED MULTIPLE CUTTING EDGES

MILWAUKEE STEEL HAWGTM CUT-TERS are highly efficient carbide-tipped cutting tools. Alternating inside and outside cutting edges are carefully honed to cut holes rapidly with great precision.

STEEL HAWGTM CUTTERS with their hardened carbide tips, also last longer than regular twist drills. The STEEL HAWGTM CUTTERS multiple cutting edges uniformly distribute the cutting over a wider area than a two flute twist drill tip.

STEEL HAWG™ CUTTERS WITH SEPARATE ARBOR 2" Cutting Depth

SIZES 3/4" thru 6"

Recommended for use with MILWAUKEE Electromagnetic Drill Presses ★

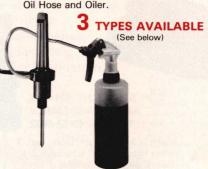
See capacity recommendations as listed at left.



CATALOG NUMBER	CUTTER SIZE	CATALOG NUMBER	CUTTER SIZE
49-57-0750	3/4"	49-57-2370	2-3/8"
49-57-0812	13/16"	49-57-2500	2-1/2"
49-57-0875	7/8"	49-57-2560	2-9/16"
49-57-0937	15/16"	49-57-2620	2-5/8"
49-57-1000	1"	49-47-2750	2-3/4"
49-57-1062	1-1/16"	49-57-2870	2-7/8"
49-57-1125	1-1/8"	49-57-3000	3"
49-57-1187	1-3/16"	49-57-3120	3-1/8"
49-57-1250	1-1/4"	49-57-3250	3-1/4"
49-57-1312	1-5/16"	49-57-3370	3-3/8"
49-57-1375	1-3/8"	49-57-3500	3-1/2"
49-57-1437	1-7/16"	49-57-3620	3-5/8"
49-57-1500	1-1/2"	49-57-3750	3-3/4"
49-57-1562	1-9/16"	49-57-3870	3-7/8"
49-57-1625	1-5/8"	49-57-4000	4"
49-57-1687	1-11/16"	49-57-4120	4-1/8"
49-57-1750	1-3/4"	49-57-4250	4-1/4"
49-57-1812	1-13/16"	49-57-4370	4-3/8"
49-57-1875	1-7/8"	49-57-4500	4-1/2"
49-57-1937	1-15/16"	49-57-4620	4-5/8"
49-57-2000	2"	49-57-4750	4-3/4"
49-57-2060	2-1/16"	49-57-5000	5"
49-57-2120	2-1/8"	49-57-5500	5-1/2"
49-57-2250	2-1/4"	49-57-6000	6"
49-57-2310	2-5/16"		

ARBOR ASSEMBLIES FOR STEEL HAWG™ CUTTERS

Assemblies consist of Arbor, Oil Hose and Oiler.



NO. 2 MORSE TAPER ARBOR ASSEMBLY NO. 49-57-0020

NO. 3 MORSE TAPER ARBOR ASSEMBLY

NO. 49-57-0010

3/4" SHANK ARBOR ASSEMBLY NO. 49-57-0030

ARBOR WRENCH SET NO. 49-96-0010 Necessary to disassemble arbor body.



HAWG WASHTM NO. 49-32-0080 (SOLD ONLY IN CASE LOTS) NINE 16 OZ. BOTTLES PER CASE

ELIMINATE CUTTING FLUID EXPERIMENTA-TION USE HAWG WASHTM WITH STEEL HAWG™ CUTTERS Hawg Wash™ is a water soluble chemical fluid concentrate containing stable sulphur and chlorine additives. This product is designed for extreme pressure applications (tough alloys and severe operations) but is also excellent for general machining assignments. Hawg WashTM is very efficient due to its combination of high cooling and strong lubricating characteristics. One 16 oz. bottle makes one gallon of solution. Proper mixing of concentrate requires mixing the concentrate into the water.

*SEE PAGES 31, 32 FOR MAGNETIC DRILL PRESSES SEE PAGE 13 FOR DRILL STANDS

HEAVY-DUTY STEEL HAWGTCUTTER ARBOR ASSEMBLIES

FOR USE WITH

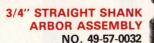
MILWAUKEE ELECTROMAGNETIC DRILL PRESSES
AND STATIONARY DRILL PRESSES USING QUICK CHANGE
TANG DRIVE STEEL HAWG™ CUTTERS



4232-1 (see page 31)
ELECTROMAGNETIC DRILL PRESS AND TANG DRIVE QUICK CHANGE

STEEL HAWG™ CUTTERS SHOWN BELOW

HOWN BELOW



Shank is 3/4" straight/round with 3 milled flats for 3/4" collets or 3/4" chucks. Assembly consists of arbor, oil hose, and oiler.





These durable carbide-tipped cutters penetrate metals three times faster, with less pressure and better results than twist drills. Quick Change Steel HawgTM Cutters require no prepunching or pilot holes, cut accurately, minimize stock removal and leave a reamlike finish. Available in 25 sizes, from 1/2 to 2" diameters as shown below. All cutters have a maximum cutting depth of 1". To be used with Quick Release Steel HawgTM Cutter Arbors and electromagnetic drill presses as shown above.

CATALOG NUMBER	DIAMETER	CATALOG NUMBER	DIAMETER	CATALOG NUMBER	CATALOG
49-57-0251	1/2"	49-57-1064	1-1/16"	49-57-1627	1-5/8"
49-57-0564	9/16"	49-57-1127	1-1/8"	49-57-1689	1-11/16"
49-57-0626	5/8"	49-57-1189	1-3/16"	49-57-1752	1-3/4"
49-57-0689	11/16"	49-57-1252	1-1/4"	49-57-1814	1-13/16"
49-57-0752	3/4"	49-57-1314	1-5/16"	49-57-1877	1-7/8"
49-57-0814	13/16"	49-57-1377	1-3/8"	49-57-1939	1-15/16"
49-57-0877	7/8"	49-57-1439	1-7/16"	49-57-2002	2"
49-57-0939	15/16"	49-57-1502	1-1/2"		
49-57-1002	1"	49-57-1564	1-9/16"		



FOR USE WITH

4233-1 (see page 32) ELECTROMAGNETIC

DRILL PRESS AND TANG DRIVE QUICK CHANGE STEEL HAWGTM CUTTERS SHOWN BELOW



NO. 49-57-0013

Shank fits all drill presses with #3 Morse Taper Drive. Automatic chip breaker feature clears drilling work area of long, spiraling chips. Assembly consists of arbor, oil hose, and oiler.

#3 MORSE TAPER ARBOR ASSEMBLY

NO. 49-57-0012

Shank fits all drill presses with #3 Morse Taper Drive. Assembly consists of arbor, oil hose, and oiler.

QUICK CHANGE KEY DRIVE STEEL HAWG™ CUTTERS FOR DISCONTINUED 4240 ONLY

Available in 26 sizes, from 1/2'' to 2'' diameters as shown below. All cutters have a maximum cutting depth of 1''.

CATALOG NUMBER	DIAMETER	CATALOG NUMBER	DIAMETER	CATALOG NUMBER	DIAMETER
49-57-0250	1/2"	49-57-1063	1-1/16"	49-57-1563	1-9/16"
49-57-0563	9/16"	49-57-1126	1-1/8"	49-57-1626	1-5/8"
49-57-0625	5/8"	49-57-1188	1-3/16"	49-57-1688	1-11/16"
49-57-0688	11/16"	49-57-1218	1-7/32"	49-57-1751	1-3/4"
49-57-0751	3/4"	49-57-1251	1-1/4"	49-57-1813	1-13/16"
49-57-0813	13/16"	49-57-1313	1-5/16"	49-57-1876	1-7/8"
49-57-0876	7/8"	49-57-1376	1-3/8"	49-57-1938	1-15/16"
49-57-0938	15/16"	49-57-1438	1-7/16"	49-57-2001	2"
49-57-1001	1"	49-57-1501	1-1/2"		





HEAVY-DUTY STEEL HAWG™

PERMANENT MAGNET METAL BORING SYSTEM

• 1/2" to 2" Dia. Holes in any Ferrous Material up to 1" Thick

 Self Contained, Automatic Pumping System provides proper cooling, lubrication with flow of Hawg Wash™

STRONG HOLDING POWER—EVEN ON 1/8" STEEL

NOW WITH FLOW CONTROL

SUPER STRONG PERMANENT MAGNET

No Electricity Needed to Maintain Holding Power

Efficiently varies the amount of Hawg Wash™ cutting fluid used based on the diameter of Steel Hawg cutter used. Smaller bits use less fluid. Separate turn valve to be switched off when not in use.

4245



APPLICATIONS

Through Bolt Hole Production for Steel Erection

Easy On/Easy OFF

Motor Switch

- Switch Panel Manufacturing
- Shipyard Refitting

Carrying

accurately.

Flow Control

Valve

for Fast Cutter

wrench required

Change...

No keys or

Helps position

tool quickly and

Handle

- **Industrial Maintenance**
- Metal Core Sampling
- General Metal Fabrication

Magnetic **Base Handle**

Interlocks with motor switch to prevent switch from turning motor on until magnet is energized.

Large Capacity Easy Fill Tank

Holds 21 oz. of Hawg WashTM solution. Hawg WashTM pumped by self-contained automatic pumping system.

Super Strong Permanent Magnet

No electricity needed to maintain holding power.

SPECIFICATIONS

CATALOG NUMBER	VOLTS AC-DC	AMPS	H.P.	SPEED (NO LOAD) RPM	SPEEDS	DRILLING CAPACITY	TANK CAPACITY (OZ.)	MAX. DEPTH	HT.	DIMENSIONS W.	L.	NET. NET (LBS.)	SHP. (LBS.)
4245	120	11.5	2	500/1000	2	2"	21	1"	14-1/4"	4-5/16"	16"	35	42

ACCESSORIES

LOCATOR PIN ASSEMBLIES FOR 4245

ZAAAA = =

PRECISION LOCATING PIN ASSEMBLY

NO. 44-60-1285

Rigid pin rides close to surface for accurate hole location. Remove when not in use to avoid bending. Ejects slug and locates center.

FOR 4245 HAWG WASHTM **CUTTING FLUID**

NO. 49-32-0080

Water soluble chemical fluid concentrate containing stable sulphur and chlorine additives, Hawg WashTM cutting fluid is specifically designed for extreme pressure application. Combines with water, one 16 oz. bottle makes one gallon of solution. Available in case lots of nine 16 oz. bottles only.

GENERAL PURPOSE LOCATING PIN ASSEMBLY

NO. 44-60-1265

Flexible, damage resistant pin, ejects slug and locates center.



FOR 4245 NO. 48-58-0080

Heavy-duty six foot length with snap hook.

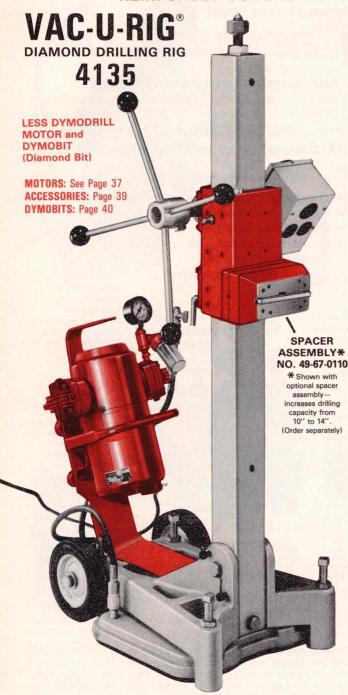
QUICK CHANGE TANG DRIVE STEEL HAWG™ CUTTERS **FOR 4245**

These durable carbide-tipped cutters penetrate metals three times faster, with less pressure and better results than twist drills. Quick Change Steel Hawg[™] Cutters require no prepunching or pilot holes, cut accurately, minimize stock removal and leave a reamlike finish. Available in 25 sizes, from 1/2 to 2" diameters as shown below. All cutters have a maximum cutting depth of 1". Can be used with Quick Change Arbors on drill presses shown on pages 31 and 32.

CATALOG NUMBER	DIAMETER	CATALOG NUMBER	DIAMETER	CATALOG NUMBER	CATALOG
49-57-0251	1/2"	49-57-1064	1-1/16"	49-57-1627	1-5/8"
49-57-0564	9/16"	49-57-1127	1-1/8"	49-57-1689	1-11/16"
49-57-0626	5/8"	49-57-1189	1-3/16"	49-57-1752	1-3/4"
49-57-0689	11/16"	49-57-1252	1-1/4"	49-57-1814	1-13/16"
49-57-0752	3/4"	49-57-1314	1-5/16"	49-57-1877	1-7/8"
49-57-0814	13/16"	49-57-1377	1-3/8"	49-57-1939	1-15/16"
49-57-0877	7/8"	49-57-1439	1-7/16"	49-57-2002	2"
49-57-0939	15/16"	49-57-1502	1-1/2"		
49-57-1002	1"	49-57-1564	1-9/16"		

HEAVY-DUTY DIAMOND DRILLING EQUIPMENT

FOR DIAMOND CORE DRILLING IN REINFORCED CONCRETE • TILE • MASONRY • MARBLE



For use with DYMODRILL motors. The No. 4135 VAC-U-RIG® consists of a No. 4130 DYMORIG, a 30 amp meter box No. 48-51-0100♦, and a VAC-U-RIG® attachment Kit No. 49-22-7070. Includes large base with wheels and four leveling screws, adjustable tilting column, cradle for motor mounting, four spoke wheel feed control, bubble level and jack screw. The VAC-U-RIG® attachment kit supplied with No. 4135 includes one vacuum pad and a vacuum pump assembly with gauge, filter, air hose and fittings. The No. 4135 can also be used without vacuum and column will accept small base assembly No. 48-10-0080. See page 39. Column height is 47". Net weight 126 lbs. Shipping weight 148 lbs.

In Canada, a 20 amp meter box, No. 48-51-0120 is supplied.



ANGLE DRILLING

Columns can be set at any angle up to 45° when angle drilling is required.

EXTRA RIGIDITY

The 3" square tubular column has 1/4" thick walls for superior strength in demanding situations.

SMOOTH CRADLE 28" TRAVEL

Adjustable and fixed brass gibs inside the cradle contact all sides of the cradle for proper tension. Gibs provide smooth cradle travel and precise drill alignment.

EXTRA HOLDING **POWER**

Up to three vacuum pads can be used with the diamond drilling rigs for extra holding power.

JACK SCREW

Adjustable jack screw at top of column provides maximum rigidity when used with telescoping assembly between ceiling and floor. Jack Screw is narrower than the column allowing quick cradle removal.

REMOVABLE CRADLE

For easy wall mounting.

RIGHT OR LEFT HANDED OPERATION

The four spoke wheel feed control and the meter box mount on either side of the cradle for right or lefthanded operation.

The meter box rotates 360°. It can be mounted facing the front or the back of the rig for clear viewing.

MILWAUKEE Diamond Drilling Equipment accessories for Models 4125, 4130 and 4135 are completely interchangeable. All these units can be used with the large or small base assemblies and with or without vacuum. See pages 38 and 39.



BUBBLE LEVEL

easy viewing.

For quick, accurate

leveling. Level is

mounted on cradle for

HEAVY-DUTY DIAMOND DRILLING EQUIPMENT

FOR DIAMOND CORE DRILLING IN REINFORCED CONCRETE • TILE • MASONRY • MARBLE

TWO SPEED DYMODRILL MOTORS

FOR USE WITH VAC-U-RIG® and DYMORIG DIAMOND CORE DRILL RIGS

15 AMP AND 20 AMP MOTORS

ALL BALL AND ROLLER BEARINGS

TRIPLE REDUCTION GEARING ON ALL MODELS

BUILT-IN WATER SWIVEL ON ALL MODELS

With spring-loaded leakproof seals. Directs flow of water to drilling edge of diamond bit to keep diamonds cool and cutting at top efficiency... flushes away cuttings.

SHEAR PIN **PROTECTION** ON MODELS

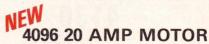
4090/4095/4079/4094/4099

Protects gears and motor against overload and allows machine to operate at safe torque. Shear pins easily replaced. Extra pins are included with each unit.

HARDENED SHEAR PIN NO. 44-60-0032 STEEL SHEAR PIN NO. 44-60-0050

* Standard Equipment

Speed changes are easily made by means of a conveniently located shift lever which transfers drive gear from one position to the other. Gears are constantly in mesh.



EXTERNALLY ADJUSTABLE FRICTION CLUTCH



The clutch is pre-set at the factory. However, if the clutch should require any adjustment due to wear or operating conditions, you can externally access the clutch using the CLUTCH AD-JUSTING PIN included.



MOUNTING BRACKET

NO. 49-67-0140 must be ordered to mount 4096 to drill stands.

2 SPEED SHIFT LEVER



DYMODRILL MOTOR SPECIFICATIONS

Suggested diameters listed on specific models are for maximum drilling efficiency in medium aggregate. Speeds must be adjusted for material conditions. All models can also be used for other diameters.

TWO SPEED

SHIFT LEVER

15 AMP MODELS

SPINDLE

THREAD

SIZE ON

1-1/4"-7

ALL MODELS

Cost effective, Heavy-Duty power. Lower current draw of 15 Amp motor provides core drilling power where 20 Amp service is unavailable.

CATALOG NUMBER	VOLTS	AMPS	SPEED RPM	DIAMETERS IN MEDIUM AGGREGATE	NET WGT. LBS.	SHP. WGT. LBS.
4090	120	15•	375 750	5"-8" 2-1/2"-5"	26	30
4095	120	15•	500 1000	3"·5" 1·1/4"·3"	26	30

• Cord equipped with 20 amp twist lock plug; Nema plug type L5-20P.

STANDARD EQUIPMENT

for DYMODRILL MOTORS includes built-in water swivel, adapter to receive standard water hose, water control valve, extra shear pins*, also an open end wrench for holding the output spindle while removing bits.

* 4096 has slip clutch

DYMODRILL MOTOR 4096 ACCESSORIES



MOUNTING BRACKET

NO. 49-67-0140

NO. 44-60-1320 Used for making adjustments

SLIP CLUTCH **ADJUSTING PIN**

to the slip clutch.

Required for use with 4096 DYMODRILL MOTOR to properly position motor on stand. (Order separately).

ADDITIONAL ACCESSORIES for Dymodrill Motors

SPACER WITH KEY NO. 49-67-0050 for Rigs Nos. 4114, 4119, and 4104 only. Allows use of bits thru 10" diameter. Spacer 1" thick, fits between cradle of Rig and Drill. Four mounting screws included.

3/16" SOCKET WRENCH NO. 49-96-0085 for mounting DYMODRILLS to cradle of VAC-U-Rig®.

1-3/8" OPEN END WRENCH NO. 49-96-4700 for DYMODRILLS listed in charts at left.

GREASE TYPE "E" FOR ALL TWO SPEED MODELS NO. 49-08-4122 1 lb. Can.

20 AMP MODELS

Improved, High Performance motor design provides 4.8 peak horsepower. Increased power maintains higher drilling speed and produces higher torque for maximum core drilling production

4079	120	20•	300 600	7"-14" 4"-7"	24	31
4094	120	20•	450 900	6"-10" 2"-6"	24	31
4096	120	20•	400 950	6"-10" 2"-6"	28	35
4099	120	20•	600 1200	4"-7" 3 4"-4"	24	31

• Cord equipped with 20 amp twist lock plug; Nema plug type L5-20P.



Milwaukee

HEAVY-DUTY DIAMOND DRILLING EQUIPMENT

FOR DIAMOND CORE DRILLING IN REINFORCED CONCRETE • TILE • MASONRY • MARBLE

DYMO-RIG DIAMOND DRILLING RIG

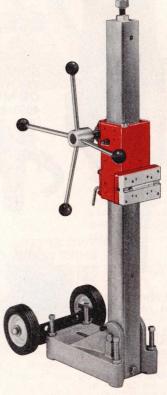
> 4130 (LARGE BASE) STAND ONLY

DYMO-RIG **DIAMOND DRILLING RIG**

> 4125 (SMALL BASE) STAND ONLY



MOTORS: See Page 37 **ACCESSORIES: Page 39 DYMOBITS:** Page 40



The same as the 4135, but without the meter box and the VAC-U-RIG attachment kit. The large base can be floor or wall mounted with a bolt type anchor or braced from the ceiling with a telescoping assembly by using the jack screw. The base can be replaced with No. 48-10-0080 small base or used with a VAC-U-RIG attachment kit to convert the 4130 into 4135 VAC-U-RIG. Order meter box separately. Net weight 82.5 lbs. Shipping weight 103.5 lbs. weight 71 lbs. Shipping weight 92 lbs.



VAC-U-RIG ATTACHMENT KIT

NO. 49-22-7075 115 VOLT Complete vacuum assemblies consisting of one vacuum pad which provides approximately 1800 lbs. of holding force and vacuum pump assembly with gauge, filter, 8 foot air hose and fittings. For use with Nos. 4130 and 4125. Net weight 19.5 lbs. Shipping weight 26.5 lbs. RECOMMENDED ONLY FOR SINGLE PAD USE.

The same as the 4130 DYMORIG at left but with a smaller base for confined drilling situations. For more support, the small base can be used with VAC-U-RIG attachment kits No. 49-22-7070 and No. 49-22-7075, or it can be replaced with the large base assembly, converting it into a 4130 DYMORIG. The 4125 will accept the same attachments as the 4130 and 4135. Order meter box separately. Net



VAC-U-RIG ATTACHMENT KIT

NO. 49-22-7070 120 VOLT Complete vacuum assemblies consisting of one vacuum pad which provides appproximately 1800 lbs. of holding force and vacuum pump assembly with switch, gauge, filter, 8 foot air hose and fittings. Same as furnished with No. 4135 and also for use with Nos. 4130 and 4125. Net weight 40 lbs. Shipping weight 46 lbs.

HEAVY-DUTY DIAMOND DRILLING EQUIPMENT

ACCESSORIES





METER BOXES

NO. 48-51-0100 ♦

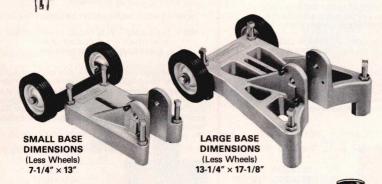
30 AMP 120 VOLT

Supplied with No. 4135 and also available as an accessory. Ammeter and power switch on front panel and two convenience outlets on back of unit. Net weight 4.75 lbs. Shipping weight 6 lbs.

♦Not available in Canada.

NO. 48-51-0120 20 AMP 120 VOLT

Ammeter and power switch on front panel with single 20 amp twist lock receptacle for drill motor. Net weight 3.75 lbs. Shipping weight 5.25 lbs.



SMALL BASE ASSEMBLY NO. 48-10-0080

Small base is included with No. 4125 and can be used with Nos. 4130 and 4135. Works well in restricted areas. Includes two wheels and four leveling screws. Net weight 22 lbs. Shipping weight 26 lbs.

LARGE BASE ASSEMBLY NO. 48-10-0090

Large base is included with Nos. 4130 and 4135. Can be used with No. 4125 for greater support. Includes two wheels and four leveling screws. Net weight 33.5 lbs. Shipping weight 37.5 lbs.

TELESCOPING EXTENSION ASSEMBLY

NO. 48-95-1000

Braces unit between floor and ceiling for maximum rigidity. Fixed hole adjustments. Assembly adjusts to 14 foot ceilings. Fractional take up between fixed settings made with jack screw at top of stands. Shipping weight 33 lbs.



WATER TANK

NO. 49-76-0060

3-1/2 gal. pressure type made of heavy gauge galvanized steel. For use where regular tap water supply is not available. Shipping weight 8 lbs.

VACUUM PUMP ASSEMBLY NO. 49-50-0160

Heavy-duty 1/8 H.P. pump complete with vacuum gauge, air filter and cord. May be mounted to base of unit if desired. Same as furnished with VAC-U-RIG® Kit No. 49-22-7075. Net weight 19.5 lbs. Shipping weight 26.5 lbs.

RECOMMENDED ONLY FOR SINGLE PAD USE.

VACUUM PAD ASSEMBLY (Single Pad)

NO. 49-22-7100 Single vacuum pad which provides approximately 1800 lbs. of holding force. Same as supplied with No. 4135 and 4136 and VAC-U-RIG® attachment kits No. 49-22-7070, No. 49-22-7075 and No. 49-22-7080. Can be used with No. 4130 and No. 4125. Net weight 8.75 lbs. Shipping weight 13 lbs.



VACUUM PAD ASSEMBLY (Double Pad)*

NO. 49-22-7090 Provides approximately 3600 lbs. of holding force. For use with Nos. 4135, 4130 and 4125. Includes two vacuum pads, crossbar assembly and hoses. Can be used separately or in addition to the single pad supplied with the VAC-U-RIG or VAC-U-RIG attachment kit. Net weight 30 lbs. Shipping weight 34 lbs.

* Vacuum pump No. 49-50-0140 is recommended for multiple pad use.



WATER COLLECTOR PUMP NO. 49-50-0050♦

115 VOLTS 50-60 Hz AC ONLY

Small heavy-duty pump of balanced impeller design, driven by an enclosed motor. Pumps out excess trapped water, abrasive proof and quiet running. Furnished with reinforced rubber flexible hose. Shipping weight 12 lbs. Rated at 2.5 amps.

♦Not available in Canada.

WATER COLLECTING RING NO. 48-70-0060

For use where water flow from drilling operation must be trapped and drained. Dike-type collector ring holds water for fast disposal when used with bits up to 10" in diameter. May be used with pump described above. A built-in vacuum hose fitting also permits use with a wet or dry vacuum cleaner. Shipping weight 8.75 lbs.

WATER HOSE NO. 49-18-0055 5/8" I.D. × 8"

8 foot water hose with standard brass male and female water hose fittings.



VACUUM PUMP ASSEMBLY NO. 49-50-0140 120 VOLTS

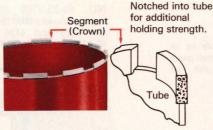
Heavy-duty 1/6 H.P. pump complete with vacuum gauge, air filter, switch and cord. May be mounted to base of unit if desired. Same as furnished with No. 4135 and VAC-U-RIG® attachment kit. Net weight 30 lbs. Shipping weight 34 lbs.

HEAVY-DUTY IMPREGNATED SOLID BACK DIAMOND BITS

FOR DIAMOND CORE DRILLING IN REINFORCED CONCRETE ● TILE ● MASONRY ● MARBLE

MILWAUKEE IMPREGNATED

DIAMOND BITS are designed for fast, efficient cutting in a wide variety of concrete products ranging from poured, steel reinforced concrete to prestressed concrete and asphalt. During use, the crown of the bit is gradually worn away, continually exposing new diamonds for constant cutting speeds and long life. Before shipment, every MILWAUKEE dia-



mond bit is "run in" to properly expose the surface diamonds in the crown so no break-in period is required - fast accurate drilling for the entire life of the bit.



SOLID BACK TYPE

The threaded adapter is an integral part of the Solid Back Bit. Precision machined and centered, the end of the adapter is threaded and flats \star are provided for easy removal of DYMOBIT from the spindle of Drill with open end wrench. 14" Core depth is standard.

★ On 1" and larger bits.

PRE-STRESSED CONCRETE PREMIUM GRADE DYMOBITS 1" to 6" diameter

A MILWAUKEE PREMIUM GRADE DYMOBIT SPECIFICALLY DESIGNED FOR DIAMOND CORE DRILLING IN PRE-STRESSED CONCRETE

Diamond impregnated crown, height, width of waterways specifically designed for maximum cutting speed and reduced risk of bit damage when drilling pre-stressed concrete. 14" core depth is standard. Also may be used for diamond core drilling in poured, steel reinforced concrete, asphalt.

NOMINAL BIT SIZE 0.D.	CATALOG NUMBER	‡THREAD SIZE
U.D.	NUMBER	SIZE
1"	48-16-1007	5/8"-11
1-1/2"	48-16-1507	5/8"-11
2"	48-16-2014	1-1/4"-7
2-1/2"	48-16-2514	1-1/4"-7
3"	48-16-3014	1-1/4"-7
3-1/2"	48-16-3512	1-1/4"-7
4"	48-16-4014	1-1/4"-7
4-1/2"	48-16-4507	1-1/4"-7
5"	48-16-5014	1-1/4"-7
6"	48-16-6014	1-1/4"-7

PREMIUM GRADE DYMOBITS 3/4" to 14" diameter

MORE HOLES AT LESS COST PER HOLE **EVEN THROUGH HARD AGGREGATE** AND REINFORCED CONCRETE

FOR . DRILLING CONTRACTORS . LINE DRILLING ALL CONSTRUCTION PROJECTS

MILWAUKEE Premium Grade Dymobits are designed to offer exceptional drilling life with smooth, steady effort. Premium Dymobits from MILWAUKEE equal Premium Performance. Conforms to Diamond Core Drilling Manufacturers Association standards.

	NOMINAL BIT SIZE 0.D.	CATALOG NUMBER	‡THREAD SIZE
	3/4"	48-16-0756	5/8"-11‡
REMIUN.	7/8"	48-16-0876	5/8"-11‡
DIAMOND	1"	48-16-1006	5/8"-11‡
CORE 85	1-1/4"	48-16-1260	5/8"-11‡
	1-1/2"	48-16-1506	5/8"-11†
	2"	48-16-2013	1-1/4"-7
	2-1/2"	48-16-2513	1-1/4"-7
	2-3/4"	48-16-2756	1-1/4"-7
No. of the second	3"	48-16-3013	1-1/4"-7
R SEE SEE	3-1/2"	48-16-3511	1-1/4"-7
	4"	48-16-4013	1-1/4"-7
	4-1/2"	48-16-4506	1-1/4"-7
	5"	48-16-5013	1-1/4"-7
	6"	48-16-6013	1-1/4"-7
	7"	48-16-7006	1-1/4"-7
	8"	48-16-8006	1-1/4"-7
	9"	48-16-9006	1-1/4"-7
	10"	48-16-9506	1-1/4"-7
	12"	48-16-9605	1-1/4"-7
1000	14"	48-16-9705	1-1/4"-7

 $\mbox{$^{\pm}$ NOTE}-\mbox{Check}$ thread size with spindle thread on Drill or refer to specifications for DYMODRILLS. When used with Drills with 1-1/4"-7 thread use Threaded Adapter No. 48-04-0160.

PREMIUM GRADE BITS AVAILABLE IN SPECIAL DIAMETER AND LENGTHS ON SPECIAL ORDER-CONTACT FACTORY

STANDARD CONTRACTORS DYMOBITS 2" to 6" diameter

PERFORMANCE AND QUALITY AT LOWEST COST

FOR . PLUMBING . ELECTRICAL MAINTENANCE HEATING
 AIR CONDITIONING VENTILATING CONTRACTORS

Crown and segment dimensions plus low cost make this bit a good, general purpose contractors bit. Designed specifically for drilling smaller numbers of a specific size hole or where difficult drilling conditions may result in damage to more expensive longer life bits. Conforms to Diamond Core Drilling Manufacturers Association standards.



NOMINAL BIT SIZE O.D.	CATALOG NUMBER	‡THREAD SIZE
2"	48-16-2007	1-1/4"-7
2-1/2"	48-16-2507	1-1/4"-7
3"	48-16-3007	1-1/4"-7
3-1/2"	48-16-3507	1-1/4"-7
4"	48-16-4007	1-1/4"-7
4-1/4"	48-16-4257	1-1/4"-7
5"	48-16-5007	1-1/4"-7
6"	48-16-6007	1-1/4"-7

‡ NOTE—Check thread size with spindle thread on Drill or refer to specifications for DYMODRILLS. It may be necessary to use a threaded Adapter to fit Drill spindle.

DIAMOND CORE DRILLING ACCESSORIES



SPACER ASSEMBLY

NO. 49-67-0110

For use with Nos. 4125, 4130 and 4136. Mounts between cradle and DYMODRILL motor to increase VAC-U-RIG® , DYMO-RIG bit capacity from 10" to 14". Net weight 3 lbs. Shipping weight 5 lbs.

SPACER ASSEMBLY

NO. 49-67-0050

For use with previous DYMO-RIG model Nos. 4104, 4114 and 4119. Spacer 1" thick, mounts between cradle and DYMODRILL motor. Allows use of bits thru 10" diameter.



BIT EXTENSIONS

NO. 48-95-1500 9" BIT EXTENSION

Extension threaded on both ends with 1-1/4"-7 thread, for use with Diamond Core Bits over 2" diameter with 1-1/4"-7 thread. Extension mounts directly to DYMODRILL; two or more can be coupled together for deep hole drilling.

NO. 48-95-2100 10-1/2" BIT EXTENSION

Extension threaded on both ends with 5/8"-11 thread, for use with 1-1/4" and 1-1/2" diameter Diamond Core Bits with 5/8"-11 thread. Extension requires No. 48-04-0160 Threaded Adapter for mounting to DYMODRILLS; two or more can be coupled together for deep hole drilling.



THREADED ADAPTERS

NO. 48-04-0160* THREAD ADAPTER reduces thread size of 1-1/4"-7 to 5/8"-11 for DYMOBITS and extensions

Used on DYMODRILLS listed in table on page 37.

3/16" SOCKET WRENCH

NO. 49-96-0085

For mounting DYMODRILLS to cradle.

1-3/8" OPEN END WRENCH

NO 49-96-4700

For use with DYMODRILLS listed in charts on page 37. Also for Threaded Adapters and Bit Extensions.

HEAVY-DUTY HAMMER-DRILLS

FOR PERCUSSION CARBIDE-BIT DRILLING IN CONCRETE AND MASONRY AND DRILLING WITHOUT HAMMERING IN WOOD AND METAL

- COMPACT
- LIGHTWEIGHT
- IDEAL FOR OVERHEAD DRILLING
- 3/8" CHUCK CAPACITY

- ALL BALL AND ROLLER BEARINGS
 HEAT TREATED GEARS AND IMPACT MECHANISM



TRIGGER SPEED CONTROL

5392-1 REV. 5397-1 REV. (KIT)

- IMPACT RESISTANT, NON-CONDUCTIVE MOTOR HOUSING AND HANDLE.
- **ALUMINUM GEAR CASE AND DIAPHRAGM** SUPPLIES GREATER SUPPORT FOR SHAFT **AND BEARINGS**
- **DEPTH GAUGE QUICKLY ADJUSTS TO ANY** DRILLING DEPTH REQUIRED FOR ANCHORS.
- SIDE HANDLE CAN BE USED ON EITHER SIDE AND WITH OR WITHOUT DEPTH GAUGE.

Designed for fast percussion drilling in concrete or masonry and high speed drilling without hammering in wood or metal. When hammerdrilling, light pressure against work engages mechanism. Hammer action stops when not under load...prevents damage when idling.

Rubber dust shield over chuck in front of fluted collar protects against harmful abrasive dust.



ACCESSORIES

NO. 49-62-0090 RUBBER SHIELD

CAPACITIES

NO. 48-66-4040 RUBBER-FLEX KEY HOLDER

NO. 49-08-4122 1 LB. CAN "E" GREASE For Gears NO. 49-08-0150 2 OZ. LUBRICANT FOR MECHANISM

SPECIFICATIONS

OI LOITIOATIONO							U.	AI AUITILU							
						TWIST	FLAT BORING	IN CONCRETE	OR MASONRY		REPLACEMENT CHUCK				
CATALOG NUMBER	VOLTS AC ONLY	AMPS	SPEED	NO LOAD RPM	BLOWS PER MIN.	DRILL BITS IN STEEL	BITS IN WOOD	CARBIDE TIP BITS	SCREW FASTENERS	SPINDLE DIAMETER AND THREAD	CATALOG NO. (CHUCK KEY INCLUDED)	REPLACEMENT CHUCK KEY CATALOG NO.	LGTH. (INS.)	NET WGT. (LBS.)	SHP. WGT. (LBS.)
5392-1 REV.	120	5.0	Speed Control	0-2,500	0-50,000	3/8"	3/4"	9/16"	3/16"	3/8"-24	48-66-0795	48-66-3240	11	4-1/2	7
5397-1 REV. Kit	120	5.0	Speed Control	0-2,500	0-50,000	3/8"	3/4"	9/16"	3/16"	3/8"-24	48-66-0795	48-66-3240	11	4-1/2	15

[&]quot;REV." after Catalog Number indicates reversing motor.

STANDARD EQUIPMENT

FOR NO. 5392-1 REV.-Includes Hammer-Drill, depth gauge, removable side handle, rubber dust shield, 3/8" industrial, geared, key-type chuck and chuck key with holder. FOR NO. 5397-1 REV. Same as 5392-1 REV. Also includes 3/16" × 3", 1/4" × 4", 3/8" × 4" and 1/2" × 6" percussion carbide-tip bits and steel case.

PERCUSSION CARBIDE-TIP BITS For drilling concrete and masonry



These Carbide-Tip Bits are especially made with round shanks for use with Hammer-Drills. Alloy steel shanks and bodies for durability and long life. Highest quality carbide tips brazed to steel bodies resist dulling, stay sharp longer and can be resharpened often. Wide spiral with shallow oval flutes removes dust fast to assure maximum drilling efficiency.

BIT DIA. INS.	CATALOG NUMBER	SHANK DIA. INS.	OVERALL LGTH. INS.	BIT DIA. INS.	CATALOG NUMBER	SHANK DIA. INS.	OVERALL LGTH. INS.
11/64	48-20-6170	11/64	3	3/8	48-20-6380	5/16	4
3/16	48-20-6180	3/16	3	3/8	48-20-6381	5/16	6
7/32	48-20-6220	3/16	3	3/8	48-20-6382	5/16	13-1/2
1/4	48-20-6250	1/4	4	7/16	48-20-6440	3/8	6
1/4	48-20-6251	1/4	6	15/32	48-20-6470	3/8	6
9/32	48-20-6280	17/64	4	1/2	48-20-6500	3/8	6
5/16	48-20-6310	17/64	4	1/2	48-20-6501	3/8	13-1/2
5/16	48-20-6311	17/64	6	9/16	48-20-6560	3/8	6



SOLD IN DURABLE VINYL SLEEVES

4 PIECE PERCUSSION CARBIDE-TIP BIT SET

NO. 48-20-6164

Set includes one each of NO. 48-20-6180 3/16" Bit NO. 48-20-6250 1/4" Bit 5/16" Bit NO. 48-20-6310 NO: 48-20-6380 3/8" Bit



6 PIECE PERCUSSION CONTRACTORS' BIT SET

NO. 48-20-6165

Set includes one each of NO. 48-20-6180 3/16" Bit 1/4" Bit NO 48-20-6250 1/4" Bit NO. 48-20-6251 NO. 48-20-6310 5/16" Bit 3/8" Bit NO. 48-20-6380 NO. 48-20-6500 1/2" Bit



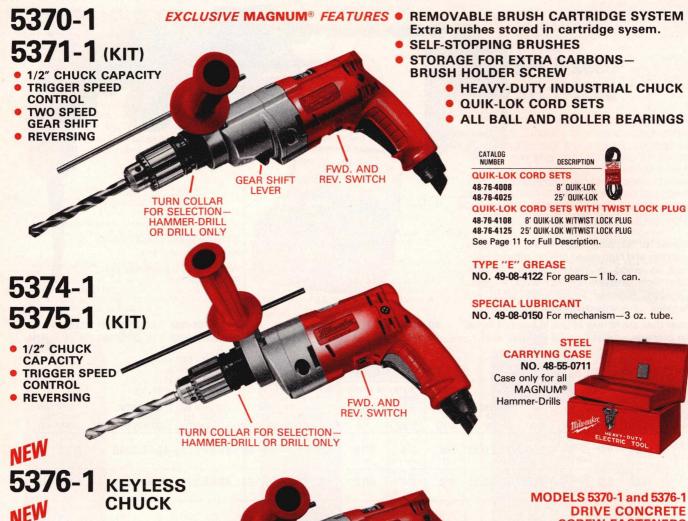


HEAVY-DUTY MAGNUM® HAMMER-DRILLS



TRIGGER SPEED CONTROL MODELS WITH QUIK-LOK CORD SETS

FOR PERCUSSION CARBIDE-BIT DRILLING IN CONCRETE AND MASONRY AND DRILLING WITHOUT HAMMERING IN WOOD OR METAL



5377-1 (KIT)

1/2" CAPACITY

TRIGGER SPEED CONTROL

TWO SPEED **GEAR SHIFT** REVERSING

TURN COLLAR FOR SELECTION-HAMMER-DRILL OR DRILL ONLY

DRIVE CONCRETE SCREW FASTENERS

Nos. 5370-1 and 5376-1 Rev. speed up installation work when used with concrete screw fastening systems. Concrete screw fasteners can be used to fasten a variety of materials and fixtures to concrete including wood and metal, electrical boxes, light fixtures, duct straps and window frames.

SPEC	HIC	CAI	ION	S				WOOD			STEEL	CON	CRETE				
CATALOG NUMBER	VOLTS AC ONLY	AMPS	SPEED	NO LOAD RPM	BLOWS PER MINUTE	FLAT BORING BIT	AUGER BIT	SHIP AUGER BIT	SELFEED BIT	HOLE SAW	TWIST DRILL	CARBIDE TIP BIT	SCREW FASTEN- ERS	CHUCK TYPE	LGTH. (INS.)	NET WGT. (LBS.)	SHP. WGT. (LBS.)
5070.4			Low	0-1,000	0-20,000	1-1/2"	7/8"	7/8"	1-1/8"	3-1/4"	1/2"	5/8"	1/4"				
5370-1 5376-1	120	5.5	High	0-2,500	0-50,000	3/4"			Low Spee Holes In \	d Setting Nood	3/8"	9/16"	3/16"	Keyed Keyless	13	5-3/4	7-1/4
5374-1	120	5.5		0-2,500	0-50,000	3/4"	NR	NR	NR	1-3/4"	3/8"	9/16"	NR	Keyed	11-1/2"	5-1/4"	6-1/2"
5371-1	Kit					Same	as 5370	-1 but wi	ith steel o	carrying c	ase and I	bits					15-1/4
5377-1	Kit					Same	as 5376	-1 but wi	ith steel o	carrying c	ase and I	bits					15-1/4

Same as 5374-1 but with steel carrying case and bits

GEAR SHIFT LEVER

FWD. AND

REV. SWITCH

CAPACITIES

STANDARD EQUIPMENT:

5375-1 Kit

NR-NOT RECOMMENDED

14-1/2

FOR NO. 5370-1, 5374-1-Includes Hammer-Drill, 8' Quik-Lok Cord, depth gauge, adjustable side handle and chuck key with holder

FOR NO., 5376-1-Includes Hammer-Drill, 8' Quik-Lok Cord, depth gauge, adjustable side handle and keyless chuck No. 48-66-0600.

ALL KITS—Includes Hammer-Drill, percussion carbide-tip bit No. 48-20-6180, 3/16"; No. 48-20-6250, 1/4"; No. 48-20-6380, 3/8" No. 48-20-6500, 1/2" and steel carrying case No. 48-55-0711.

VARIABLE SPEED

HEAVY-DUTY HAMMER-DRILLS
FOR PERCUSSION CARBIDE BIT DOWN FOR PERCUSSION CARBIDE BIT DRILLING IN CONCRETE AND MASONRY AND DRILLING WITHOUT HAMMERING IN WOOD OR METAL

WAY ACTION • HAMMERING WITH ROTATION • ROTATION ONLY

5398 5399 (KIT)

Steel Carrying Case.

SPECIFICATIONS

1/2" CHUCK

CAPACITY

VOLTS

AC ONLY

120

120

CATALOG

NUMBER

5399 KIT

NUMBER

Handle and "F" Grease

AC-DC

120

13

5398

HEAVY-DUTY CONSTRUCTION **ELECTRONICS**

Kits contain Hammer-Drill plus Depth Rod, Side Handle, Chuck Key and

BLOWS

PER MIN.

0-19,000

0.19,000

STANDARD EQUIPMENT: Depth Rod, Side Handle and Chuck Key No. 48-66-3280.

 ADJUSTABLE SIDE HANDLE FOR MAXIMUM CONTROL

> DEPTH ROD FASILY ADJUSTED BY LOOSENING SIDE HANDLE

- HAMMER-DRILL UP TO 7/8" HOLES IN CONCRETE OR MASONRY
 - **DRILL WOOD** AND STEEL-LARGE CAPACITIES, HIGH TORQUE

TURN COLLAR FOR SELECTION HAMMER-DRILL OR DRILL ONLY

ALL BALL AND ROLLER BEARINGS

HAMMER

MASONRY

CARBIDE TIP

BIT

7/8"

5/8"

STEEL CARRYING CASE ONLY NO. 48-55-0215

SELFEED

BITS

1-1/2"

STEEL

TWIST

DRILL

1/2"

CHUCK NO. 48-66-1365

CHUCK KEY ONLY NO. 48-66-3280

KEY HOLDER ONLY NO. 48-66-4040

	NET	SHP
LENGTH	WGT.	WGT
(INS.)	LBS.	LBS.
	LENGTH (INS.)	

SOFT HARD 15-1/2 5/8" 15-1/2 17 18 TYPE "E" GREASE NO. 49-08-4121 For Gears-1 lb. can

NO HOURLY OR DAILY OILING-

GREASE PERIODICALLY

DEPENDING ON AMOUNT

SPECIAL LUBRICANT NO. 49-08-0150

For mechanism-2 oz. tube

AMPS

6.2

6.2

PERCUSSION CARBIDE-TIP BITS For drilling concrete and masonry

CAPACITIES

SHIP

AUGER

BITS

1-1/8"

DRILL ONLY

WOOD

AUGER

BITS

These Carbide-Tip Bits are especially made with round shanks for use with Hammer-Drills. Alloy steel shanks and bodies for durability and long life. Highest quality carbide tips brazed to steel bodies resist dulling, stay sharp longer and can be resharpened often. Wide spiral with shallow oval flutes removes dust fast to assure maximum drilling efficiency.

FLAT

BORING

BITS

1-1/2'

1-1/2"

HOLE

SAW

3-1/2

3-1/2"

NO

LOAD

RPM

0-950

0.950

BIT DIA. INS.	CATALOG NUMBER	SHANK DIA. INS.	OVERALL LGTH. INS.	DIA. INS.	CATALOG NUMBER	SHANK DIA. INS.	OVERALL LGTH. INS.	BIT DIA. INS.	CATALOG NUMBER	SHANK DIA. INS.	OVERALL LGTH. INS.
11/64	48-20-6170	11/64	3	5/16	48-20-6311	17/64	6	1/2	48-20-6501	3/8	13-1/2
3/16	48-20-6180	3/16	3	3/8	48-20-6380	5/16	4	9/16	48-20-6560	3/8	6
7/32	48-20-6220	3/16	3	3/8	48-20-6381	5/16	6	5/8	48-20-6620	1/2	6
1/4	48-20-6250	1/4	4	3/8	48-20-6382	5/16	13-1/2	11/16	48-20-6690	1/2	6
1/4	48-20-6251	1/4	6	7/16	48-20-6440	3/8	6	3/4	48-20-6750	1/2	6
9/32	48-20-6280	17/64	4	15/32	48-20-6470	3/8	6	7/8	48-20-6880	1/2	6
5/16	48-20-6310	17/64	4	1/2	48.20.6500		6	10			A 11100

4 PIECE PERCUSSION CARBIDE-TIP BIT SET

NO. 48-20-6164

Set includes one each of

NO. 48-20-6180 3/16" Bit

OF USE

NO. 48-20-6310 5/16" Bit NO. 48-20-6250 1/4" Bit NO. 48-20-6380 3/8" Bit

6 PIECE PERCUSSION CONTRACTORS' BIT SET

NO. 48-20-6165

Set includes one each of

NO. 48-20-6180 3/16" Bit NO. 48-20-6250 1/4" Bit NO. 48-20-6251

NO. 48-20-6310 5/16" Bit NO. 48-20-6380 3/8" Bit 1/4" Bit NO. 48-20-6500 1/2" Bit

HEAVY-DUTY DEMOLITION HAMMER FAST BREAKUP OF CONCRETE, ASPHALT, **2000 BLOWS** CLAY, COMPACTED DIRT QUICKLY LOOSENED WITH CLAY SPADE PER MIN. COMPLETELY SEALED MECHANISM HEAVY-DUTY **EXCLUDES ABRASIVE DUST INSIDE** 3 POSITION MILWAUKEE-BUILT MOTOR AIR CUSHIONED SYSTEM DELIVERS PIPE HANDLE MAXIMUM BLOW TO BIT-SMOOTH **OPERATING TO REDUCE FATIGUE** HANDLES A WIDE RANGE OF CONVENIENT HAMMER IRON TWO FINGER TRIGGER SWITCH ALL BALL EASY ACCESS AND ROLLER **BRUSH COVERS** BEARINGS **SPECIFICATIONS** STEEL CARRYING CASE (When ordered separately) BLOWS NET SHP NO. 48-55-0725 CATALOG VOLTS WEIGHT WEIGHT

IBS

65

TYPE "E" GREASE

NO. 49-08-4121

1 lb. can

TYPE "F" GREASE

NO. 49-08-4165

2 oz. tube

LENGTH

27-314

IBS

34

MINUTE

2000

STANDARD EQUIPMENT: Demolition Hammer, Steel Carrying Case, Auxiliary Pipe

CCESSORIES

В

12" BULL POINT NO. 48-62-0165 20" BULL POINT NO. 48-62-0175

D

- 12" COLD CHISEL NO. 48-62-0065 20" COLD CHISEL NO. 48-62-0075
- SCALING CHISEL NO. 48-62-0155 SLOTTING TOOL NO. 48-62-0225 BUSHING TOOL NO. 48-62-0900 Used to surface concrete.
- **BUSHING TOOL HEAD NO. 48-62-0910** Replacement.

 CLAY SPADE NO. 48-62-1000
- FROST SPADE NO. 48-62-0350

HEAVY-DUTY 3/4" SDS ROTARY HAMMERS • 3/4" SOLID BIT CAPACITY IN CONCESSES

- VARIABLE SPEED 0-1100 RPM/0-5000 BPM REVERSING
- USES SDS BITS



CARRYING CASE

WITH STEEL CARRYING CASE AND ACCESSORIES

- TWO MODES OF OPERATION-HAMMER WITH ROTATION FOR CONCRETE/MASONRY OR ROTATION ONLY WITH CHUCK FOR WOOD/STEEL
- LIGHTWEIGHT ONLY 6-1/2 POUNDS IDEAL FOR OVERHEAD DRILLING
- SLIP CLUTCH WHEN BIT JAMS, CLUTCH SLIPS - ROTARY ACTION STOPS
- ALL BALL AND ROLLER BEARINGS
- **POWERFUL 6 AMP** MILWAUKEE BUILT MOTOR
- **HEAVY-DUTY AC SEALED SWITCH**

MADE IN

QUIK-LOK CORD SETS

- QUICK DETACHMENT FROM TOOL FOR TANGLE-FREE CARRYING AND STORAGE
- 8' STANDARD, 25' AVAILABLE
- 8' AND 25' QUIK-LOK CORD SETS WITH TWIST-LOCK PLUGS AVAILABLE

See Page 11 for Full Description.



SPECIFICATIONS

CATALOG NUMBER	MAXIMUM CAPACITY	VOLTS AC ONLY	AMPS	NO LOAD BLOWS PER MIN.	NO LOAD RPM	LENGTH (INCHES)	WGT. (LBS.)	SHP. WGT. (LBS.)
5368-1	3/4"	120	6	0-5000	0-1100	15"	6-1/2	16
5369-1	3/4"	120	6	0-5000	0-1100	15"	6-1/2	17-1/4

STANDARD EQUIPMENT:

NO. 5368-1-Includes Rotary Hammer, Steel Carrying Case, Side Handle, Depth Gauge and 8' Quik-Lok Cord Set No. 48-76-4008.

NO. 5369-1—Same as above. Also includes 48-20-7001, 48-20-7005, 48-20-7010, 48-20-7016, 48-20-7031, Carbide-Tipped SDS Bits.

OPTIONAL ACCCESSORIES FOR THE HAWK AND FALCON

See page 48 for listings of "A" Taper Bits and page 28 for Twist Bits.

RED CATALOG NUMBERS are not recommended for use on 5368-1 and 5369-1.

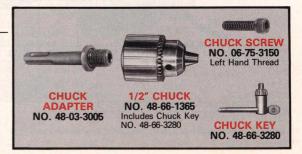


CARBIDE-TIPPED SDS SHANK (Fits Directly Into Tool)

BIT DIA. CATALOG (IN.) NUMBER	NEVV CAT. NO. (25 BITS PER BOX)	OVERALL LENGTH (IN.)	USABLE LENGTH (IN.)	BIT. DIA. (IN.)	CATALOG NUMBER	NEW CAT. NO. (25 BITS PER BOX)	OVERALL LENGTH (IN.)	USABLE LENGTH (IN.)
3/16 48-20-7000	48-20-7100	4	2	1/2	48-20-7040		12	10
3/16 48-20-7001	48-20-7101	6	4	1/2	48-20-7041		18	16
3/16 48-20-7002	48-20-7102	12	10	9/16	48-20-7046	= =	12	10
7/32 48-20-7003	48-20-7103	8	6	5/8	48-20-7051	48-20-7151	8	6
7/32 48-20-7004	48-20-7104	12	10	5/8	48-20-7055		12	10
1/4 48-20-7005	48-20-7105	4	2	3/4	48-20-7061	W. S. 400	. 8	6
1/4 48-20-7010	48-20-7110	6	4	3/4	48-20-7065		12	10
1/4 48-20-7011	48-20-7111	8	6	7/8	48-20-7071		8	6
5/16 48-20-7015	48-20-7115	6	4	7/8	48-20-7072		12	10
3/8 48-20-7016	48-20-7116	6	4	7/8	48-20-7075	_	18	16
3/8 48-20-7025		12	10	1	48-20-7080	_	10	8
7/16 48-20-7030		6	4	1	48-20-7085	2	18	16
1/2 48-20-7031	48-20-7131	6	4					

SDS Bits also fit without adapter in competitive models: AEG PHE 16 RLN, PHE 26, PHE 19 RL, PHE 20 RLN, PHE 210; B&D 5014, 5054K; RYOBI ED-211; BOSCH 11207, 11210 VSR, 11211 VS, 11212 VSR, 11213 K; KANGO 327; HILTI TE 17/22; PHILLIPS 555, 715; MAKITA HR 1821, HR 2511.

SDS/CHUCK ADAPTER KIT NO. 48-66-1370 Kit includes all items below. Parts in KIT may be ordered separately. Use part numbers listed below.



HEAVY-DUTY 1" SDS ROTARY HAMMERS

- 1" SOLID BIT CAPACITY IN CONCRETE 3-1/2" CORE BIT CAPACITY
- VARIABLE SPEED 0-900 RPM/0-4500 BPM REVERSING
- USES SDS BITS

SIDE HANDLE is fully adjustable and can be rotated 360 degrees.

DEPTH ROD for drilling holes to a preset depth.

HAMMER/DRILL COLLAR

for drilling or rotary hammering

5362-1

5365-1

WITH STEEL CARRYING CASE WITH STEEL CARRYING CASE AND ACCESSORIES

- TWO MODES OF OPERATION-HAMMER WITH ROTATION FOR CONCRETE/MASONRY OR ROTATION ONLY WITH CHUCK FOR WOOD/STEEL
- LIGHTWEIGHT ONLY 7-1/2 POUNDS IDEAL FOR OVERHEAD DRILLING
- SLIP CLUTCH WHEN BIT JAMS, CLUTCH SLIPS — ROTARY ACTION STOPS
- ALL BALL AND ROLLER BEARINGS
- POWERFUL 6 AMP
 MILWAUKEE BUILT MOTOR
- HEAVY-DUTY AC SEALED SWITCH





0

SPECIFICATIONS

CATALOG NUMBER	MAXIMUM CAPACITY	VOLTS AC ONLY	AMPS	BLOWS PER MIN.	LOAD RPM	LENGTH (INCHES)	WGT. (LBS.)	WGT. (LBS.)
5362-1	1"	120	6	0-4500	0-900	14"	7-1/2	15
5365-1	1"	120	6	0-4500	0-900	14"	7-1/2	16-1/4

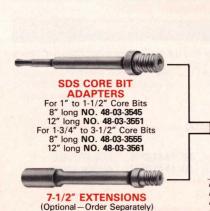
STANDARD EQUIPMENT:

NO. 5362-1—Includes Rotary Hammer, Steel Carrying Case, Side Handle and Depth Gauge.
NO. 5365-1—Same as above. Also includes 48-20-7000, 48-20-7005, 48-20-7010, 48-20-7015, 48-20-7016, 48-20-7031, 48-20-7051 Carbide-Tipped SDS Bits.

OPTIONAL ACCCESSORIES FOR THE HAWK AND FALCON (continued)

See page 48 for listings of "A" Taper Bits and page 28 for Twist Bits.

RED CATALOG NUMBERS are not recommended for use on 5368-1 and 5369-1.



For Adapter 48-03-3545, 3551 NO. 48-95-6070

For Adapter 48-03-3555, 3561 NO. 48-95-6075

"A" TAPER ADAPTER

NO. 48-66-6750



THIN WALL CORE BITS

Usable Cutting Depth 3' BIT SIZE CAT. NO. BIT SIZE CAT. NO. 48-20-5005 48-20-5035 2-3/8" 1-1/8 48-20-5010 48-20-5038 1-1/4" 48-20-5040 2-1/2" 48-20-5020 1-3/8" 48.20.5045 48-20-5025 48-20-5050 48-20-5030 1-3/4



CENTER PIN*

(Same as

furnished with Core Bits) For 1-1/4" to 1-1/2" Bits

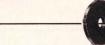
NO. 48-20-6150 For 1-3/4" to 3-1/2" Bits NO. 48-20-6155

* 1" and 1-1/8" Core Bits

do not require a center pin.

SDS BIT SET NO. 48-20-7095

| Includes bits shown in the chart below. | BIT DIA. CAT. NO. BIT DIA. CAT. NO. | 3/16" 48-20-7001 | 5/16" 48-20-7015 | 1/4" 48-20-7010 | 1/2" 48-20-7031



REPLACEMENT GUIDE PLA (Furnished with Core Bit)

CAT. NO. DIA DIA. CAT. NO. 48-20-6151 1-1/4" 48-20-6154 48-20-6152 1-3/8 48-20-6158 2-1/2" 48-20-6156 1-3/4 48-20-6160 3-1/2" 48-20-6157

Milwanker

HEAVY-DUTY 1/2" ROTARY HAMMERS

SIDE HANDLE is fully

rotated 360 degrees.

BIT LOCK is designed for fast bit

adjustable and can be

VARIABLE SPEED MODELS

MADE IN USA

DEPTH ROD for drilling

holes to a preset

depth.

6" CORE BIT CAPACITY – 5352, 5353

 4" CORE BIT CAPACITY – 5341, 5342 IN CONCRETE/MASONRY

FAST 4100 BLOWS PER MIN.

• STOP-ROTATION CONTROL 5352. 5353 ONLY

Stop-Rotation lever disengages rotary action, allowing hammer action only. This feature allows the tool to set self-drilling tooth anchors up to 7/8".

IDEAL FOR CLOSE CORNER AND OVERHEAD APPLICATIONS

UNSURPASSED IN CAPACITY AND DRILLING SPEED FOR ITS SIZE AND WEIGHT

WITH STEEL CARRYING CASE

5353

WITH STEEL CARRYING CASE AND ACCESSORIES

> SINGLE SPEED MODELS

5341

WITH STEEL **CARRYING CASE**

WITH STEEL **CARRYING CASE** AND ACCESSORIES

- BALL AND ROLLER BEARINGS
- HEAVY-DUTY AC-DC SEALED SWITCH ON 5341, 5342 ONLY, Two Finger Trigger
- SELF-STOPPING LONG LIFE BRUSH SYSTEM
- **EXTRA STRENGTH FLEXIBLE CORD** with rugged separate strain relief.
- ELECTRO-PNEUMATIC HAMMER MECH-ANISM delivers powerful blows with minimum operator pressure. Special design increases efficiency while reducing the size and weight of tool.
- NO HOURLY OR DAILY OILING REQUIRED

HAMMERS ONLY WHEN PRES-SURE IS APPLIED TO THE BIT AND STOPS HAMMERING WHEN PRESSURE IS REMOVED

replacement.

- COMPACT MOTOR HOUSING designed for easy handling and for operation in close quarters. Low weight of the hammer makes it ideal for overhead drilling applications.
- LONG-LIFE SELF CONTAINED SLIP CLUTCH When bit jams, clutch slips-rotary action stops.
- INTERNAL-EXTERNAL "CAPTIVE" DUST SHIELD inside of the tool and also extends over nose for greater protection against harmful dust.
- EPOXY-COATED FIELD provides the abrasion resistance needed when drilling continuously in concrete and stone. Increases the life of the tool while reducing service time.

NET

SHP



STEEL CARRYING CASE ONLY

NO. 48-55-0580

STANDARD EQUIPMENT:

NO. 5352—Includes Rotary Hammer, Steel Carrying Case, Side Handle and Depth Gauge. NO. 5353—Same as above. Also includes $1/2'' \times 16''$, $5/8'' \times 16''$ and $3/4'' \times 16''$ splined shank bit, 12" bull point, 12" cold chisel and an "A" taper adapter No. 48-66-6502. NO. 5341-Includes Rotary Hammer, Steel Carrying Case, Side Handle and Depth Gauge. NO. 5342—Same as above. Also includes $1/2" \times 16"$, $5/8" \times 16"$ and $3/4" \times 16"$ splined shank bit, 12" bull point, 12" cold chisel and "A" taper adapter No. 48-66-6502.

SPECIFICATIONS

CATALOG NUMBER	MAXIMUM CAPACITY	VOLTS	AMPS	BLOWS PER MIN.	LOAD RPM	LENGTH (INCHES)	WGT. (LBS.)	WGT. (LBS.)
5352	1-1/2"	120 AC ONLY	8.5	0-4100	0-500	17-1/4	13-1/2	21-1/2
5353	1-1/2"	120 AC ONLY	8.5	0-4100	0-500	17-1/4	13-1/2	29
5341	1-1/2"	120 AC-DC	8.5	4100	600	17-1/4	13	21
5342	1-1/2"	120 AC-DC	8.5	4100	600	17-1/4	13	28-1/2

NO LOAD

NO

SPLINE SHANK BITS



MILWAUKEE EAGLE Rotary Hammer is designed for use with the Spline Shank Bits and adapters. The 12 tooth configuration allows for maximum efficiency and less wear on bit and hammer. MILWAUKEE SPLINE SHANK BITS fit directly into the nose of the tool for positive rotation response.

HAMMER TOOLS

The hammer irons fit directly into the nose of the tool, Milled flat, allows

hammer iron to be locked in place.

ACCESSORIES

BIT AND CHISEL ASSORTMENT* NO. 48-20-4200

Consists of one each of the following:

NO. 48-62-2020 12" Cold Chisel NO. 48-20-4076 3/4" dia. × 16" long Spline Shank Bit 1/2" dia.×16" long Spline Shank Bit NO 48-20-4051 NO. 48-66-6502 "A" Taper Adapter 5/8" dia. × 16" long Spline Shank Bit NO. 48-62-2000 12" Bull Point Chisel NO. 48-20-4063

* Same as supplied with NO. 5342 and 5353.

SEE PAGES 48. 49 FOR ADDITIONAL ROTARY HAMMER ACCESSORIES

HEAVY-DUTY 1-1/2" ROTARY HAMMERS

• 6" DIA. CAPACITY IN CONCRETE/MASONRY WITH PERCUSSION CORE BITS

STOP-ROTATION CONTROL

Stop-Rotation lever disengages rotary action, allowing hammer action only. This feature allows the tool to set self-drilling tooth anchors up to 7/8".



5347

WITH STEEL CARRYING CASE

5348

CARRYING CASE AND ACCESSORIES



DELIVERS MAXIMUM RESULTS WITH MINIMAL USER EFFORT!

• DEPTH ROD for drilling holes to a preset depth.

BIT LOCK is designed for fast bit replacement.

 SIDE HANDLE is fully adjustable and can be rotated 360 degrees.

- BALL AND ROLLER BEARINGS
- HEAVY-DUTY AC-DC SEALED SWITCH Two Finger Trigger
- SELF-STOPPING LONG LIFE BRUSH SYSTEM
- EXTRA STRENGTH FLEXIBLE CORD with rugged separate strain relief.
- ELECTRO-PNEUMATIC HAMMER MECH-ANISM delivers powerful blows with minimum operator pressure. Special design increases efficiency while reducing the size and weight of tool.
- NO HOURLY OR DAILY OILING REQUIRED
- COMPACT MOTOR HOUSING designed for easy handling and for operation in close quarters.
 Low weight of the hammer makes it ideal for overhead drilling applications.
- LONG-LIFE SELF CONTAINED SLIP CLUTCH
- When bit jams, clutch slips—rotary action stops.

 INTERNAL-EXTERNAL "CAPTIVE" DUST SHIELD inside of the tool and also extends over nose for greater protection against harmful dust.
- EPOXY-COATED FIELD provides the abrasion resistance needed when drilling continuously in concrete and stone. Increases the life of the tool while reducing service time.



STEEL CARRYING CASE ONLY NO. 48-55-0580

SPECIFICATIONS

CATALOG NUMBER	MAXIMUM CAPACITY	VOLTS AC-DC	AMPS	BLOWS PER MIN.	LOAD RPM	LENGTH (INCHES)	WGT. (LBS.)	WGT. (LBS.)
5347	1-1/2"	120	8.5	4100	500	17-1/4	13-1/2	21-1/2
5348	1-1/2"	120	8.5	4100	500	17-1/4	13-1/2	29

STANDARD EQUIPMENT:

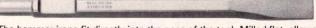
NO. 5347—Includes Rotary Hammer, Steel Carrying Case, Side Handle and Depth Gauge. NO. 5348—Same as above. Also includes 1/2''x16'', 5/8''x16'' and 3/4''x16'' splined shank bit, 12'' bull point, 12'' cold chisel and an "A" taper adapter.

SPLINE SHANK BITS



MILWAUKEE *U.S.-1* Rotary Hammer is designed for use with the Spline Shank Bits and adapters. The 12 tooth configuration allows for maximum efficiency and less wear on bit and hammer. MILWAUKEE SPLINE SHANK BITS fit directly into the nose of the tool for positive rotation response.

HAMMER TOOLS



The hammer irons fit directly into the nose of the tool. Milled flat, allows hammer iron to be locked in place.

ACCESSORIES

BIT AND CHISEL ASSORTMENT* NO. 48-20-4200

Consists of one each of the following:

NO. 48-20-4051 1/2" dia.×16" long Spline Shank Bit NO. 48-20-4076 3/4" dia.×16" long Spline Shank Bit NO. 48-60-2020 12" cold Chisel NO. 48-20-4063 5/8" dia.×16" long Spline Shank Bit NO. 48-60-2020 12" Bull Point Chisel NO. 48-66-6502 "A" Taper Adapter

*Same as supplied with NO. 5348.

SEE PAGES 48, 49 FOR ADDITIONAL ROTARY HAMMER ACCESSORIES

HEAVY-DUTY ROTARY HAMMER ACCESSORIES

SPLINE DRIVE BITS AND TOOTH ANCHOR CHUCKS

ROTARY HAMMER ACCESSORIES ON PAGES 48 AND 49 FIT MILWAUKEE ROTARY HAMMERS 5341, 5342, 5343, 5344, 5347, 5348, 5352, 5353 and the following competitive hammers:

> B & D 5041-42-43-44 (MACHO) BOSCH 11202-03-05-09-14 AEG PH 350-350D, PH 240D PH 38, PHD 38, PHD 26, PHA 38

METABO RH-66, RH-99, RH-99X PHILLIPS 747-2 **MAKITA HR 3851**



CUTTER

ONE-PIECE SPLINE SHANK BIT

> RED CATALOG NOS. ARE NOT **RECOMMENDED FOR USE WITH** MODELS 5343 AND 5344.

4000	ALL ALL ALL	400		40								
BIT DIA. (IN.)	CATALOG NUMBER	OVERALL LENGTH (IN.)	USABLE LENGTH (IN.)	BIT DIA. (IN.)	CATALOG NUMBER	OVERALL LENGTH (IN.)	USABLE LENGTH (IN.)	BIT. DIA. (IN.)	CATALOG NUMBER	OVERALL LENGTH (IN.)	USABLE LENGTH (IN.)	
5/8	48-20-4300	10	5	3/4	48-20-4340	22	17	1	48-20-4380	36	31	
5/8	48-20-4305	16	11	3/4	48-20-4345	27	22	1-1/8	48-20-4385	16	11	
5/8	48-20-4310	21	16	3/4	48-20-4350	36	31	1-1/8	48-20-4390	22	17	
5/8	48-20-4315	27	22	27/32	48-20-4355	16	11	1-1/4	48-20-4395	16	11	
5/8	48-20-4320	36	31	7/8	48-20-4360	16	11	1-1/4	48-20-4400	22	17	
11/16	48-20-4325	16	11	7/8	48-20-4365	22	17	1-1/4	48-20-4405	36	31	
3/4	48-20-4330	11	6	1	48-20-4370	16	11	1-3/8	48-20-4410	22	17	
3/4	48.20.4335	16	11	1	48.20.4375	22	17	1.1/2	48.20.4415	22	17	

2-CUTTER

ONE PIECE SPLINE SHANK BIT

> RED CATALOG NOS. ARE NOT RECOMMENDED FOR USE WITH MODELS 5343 AND 5344.

	2000)								
BIT DIA. (IN.)	CATALOG NUMBER	OVERALL LENGTH (IN.)	USABLE LENGTH (IN.)	BIT DIA. (IN.)	CATALOG NUMBER	OVERALL LENGTH (IN.)	USABLE LENGTH (IN.)	BIT DIA. (IN.)	CATALOG NUMBER	OVERALL LENGTH (IN.)	USABLE LENGTH (IN.)	
3/8	48-20-4037	10	4	3/4	48-20-4075	10	4	1-1/8	48-20-4112	16	10	
1/2	48-20-4050	10	4	3/4	48-20-4076	16	10	1-1/8	48-20-4113	22	16	
1/2	48-20-4051	16	10	3/4	48-20-4078	22	16	1-1/4	48-20-4125	16	10	
1/2	48-20-4052	22	16	13/16	48-20-4081	16	10	1-1/4	48-20-4126	22	16	
9/16	48-20-4056	10	4	7/8	48-20-4087	16	10	1-3/8	48-20-4137	16	10	
5/8	48-20-4062	10	4	7/8	48-20-4088	22	16	1-3/8	48-20-4138	22	16	
5/8	48-20-4063	16	10	1	48-20-4100	16	10	1-1/2	48-20-4150	16	10	
5/8	48-20-4064	22	16	1	48-20-4101	22	16	1-1/2	48-20-4151	22	16	
	48-20-4068	16	10									



"A" TAPER BITS

USE "A" TAPER ADAPTERS

"A" TAPER ADAPTER

NO. 48-66-6502

For use with "A" Taper Bits. Includes Drift Pin No. 48-86-0120.

BIT DIA. (IN.)	"A" TAPER CATALOG NUMBER	FAST SPIRAL "A" TAPER NUMBER	OVERALL LENGTH (IN.)	USABLE LENGTH (IN.)	BIT DIA. (IN.)	"A" TAPER CATALOG NUMBER	FAST SPIRAL "A" TAPER NUMBER	OVERALL LENGTH (IN.)	USABLE LENGTH (IN.)
3/16	48-20-3180	48-20-3181	4	2	1/2	48-20-3500	48-20-3504	4-1/2	2-1/2
1/4	48-20-3250	48-20-3251	4	2	1/2	48-20-3501	48-20-3505	12	10
1/4	48-20-3252	48-20-3253	6	4	9/16	48-20-3559	48-20-3561	5	3
5/16	48-20-3310	48-20-3311	4-1/2	2-1/2	9/16	48-20-3560	48-20-3562	9	7
5/16	48-20-3312	48-20-3313	6	4	5/8	48-20-3619	48-20-3623	5	3
3/8	48-20-3380	48-20-3383	4-1/2	2-1/2	5/8	48-20-3620	48-20-3624	9	7
3/8	48-20-3381	48-20-3384	9	7	5/8	48-20-3621	48-20-3625	12	10
3/8	48-20-3382	48-20-3385	12	10	11/16	48-20-3690	48-20-3691	5	3
7/16	48-20-3440	48-20-3441	4-1/2	2-1/2	3/4	48-20-3790	48-20-3791	5-1/2	3-1/2
15/32	48-20-3470	_	4-1/2	2-1/2	3/4	48-20-3795	48-20-3796	9	7
1/2	48-20-3499	48-20-3503	9	7	7/8	48-20-3860	48-20-3861	5	3



"B" TAPER ADAPTER

NO. 48-66-6503

For use with "B" Taper Bits. Includes Drift Pin No. 48-86-0120.

"B" TAPER BITS

USE "B" TAPER ADAPTERS

BIT DIA. (IN.)	CATALOG NUMBER	OVERALL LENGTH (IN.)	USABLE LENGTH (IN.)	BIT DIA. (IN.)	CATALOG NUMBER	OVERALL LENGTH (IN.)	USABLE LENGTH (IN.)
11/16	48-20-3680	9	6-3/4	7/8	48-20-3870	9	6-3/4
3/4	48-20-3750		6-3/4	1	48-20-3100	9	6-3/4
27/32	48-20-3840	9	6-3/4				





NO. 48-66-6503

For use with "B" Taper Bits and Tooth Anchor Chucks, Includes Drift Pin No. 48-86-0120.



ANCHOR

TOOTH ANCHOR CHUCKS

ANCHOR SELF-DRILLING ANCHOR APPLICATION

CHUCK USE "B" TAPER ADAPTER NO. 48-66-6503 AND DRIFT PIN NO. 48-86-0100 FOR TOOTH ANCHOR CHUCK

CATALOG NUMBER	FOR BOLT SIZE	O.D. OF ANCHOR
48-66-6520	3/16"-1/4"	7/16"
48-66-6540	5/16"	15/32"
48-66-6560	3/8"	9/16"
48-66-6580	1/2"	11/16"
48-66-6600	5/8"	27/32"

DRIFT PIN NO. 48-86-0100

is not furnished with each tooth anchor chuck. Order separately.

HEAVY-DUTY ROTARY HAMMER ACCESSORIES

CORE BITS, ADAPTERS AND HAMMER TOOLS FOR MODELS 5341, 5342, 5343, 5344, 5347, 5348, 5352 AND 5353

THICK WALL **CORE BIT ADAPTERS**

(Order Separately) For 1" to 1-3/8" Core Bits 12" long NO. 48-03-3562 For 1" to 1-3/8" Core Bits 18" long NO. 48-03-3563 For 1-1/2" to 6" Core Bits 12" long NO. 48-03-3564 For 1-1/2" to 6" Core Bits 18" long NO. 48-03-3565



THIN WALL **CORE BIT ADAPTERS** (Order Separately)

SPLINE SHANK

For 1" to 1-1/2" Core Bits 12" long NO. 48-03-3535 For 1" to 1-1/2" Core Bits 18" long NO. 48-03-3536 For 1-3/4" to 6" Core Bits 12" long NO. 48-03-3540 For 1-3/4" to 6" Core Bits 18" long NO. 48-03-3541

SDS ADAPTER For use with SDS bits NO. 48-03-3015 MILWAUKEE MODEL 5362-1 HAWK AND

MODEL 5366-1 FALCON HAMMER DO NOT REQUIRE SDS ADAPTER FOR USE WITH SDS BITS. ALL OTHER MILWAUKEE MOD-ELS REQUIRE SDS ADAPTER.

SDS BITS ARE SHOWN ON PAGE 44

NEW

ONE PIECE CORE BITS Usable Cutting Depth 2-1/2"

RED CATALOG NOS. ARE NOT

	5341, 5342	AND 534	
H	CAT. NO.	BIT SIZE	OVERALL LENGTH (IN.)
	48-20-4920	1-1/2"	12
	48-20-4925	1-1/2"	22
	48-20-4930	2"	12
	48-20-4935	2"	22
	48-20-4940	2-1/2"	12
Samma	48-20-4945	2-1/2"	22
	48-20-4950	3"	12
	48-20-4955	3"	22
	48-20-4960	3-1/2"	12
	48-20-4965	3-1/2"	22
	48-20-4970	4"	12
W 2	48-20-4975	4"	22
	48-20-4980	5"	12

7-1/2" EXTENSIONS (OPTIONAL – ORDER SEPARATELY) For Adapter Nos. 48-03-3535, 3536 NO. 48-95-6070 For Adapter Nos. 48-03-3540, 3541 NO. 48-95-6075

THIN WALL CORE BITS Usable Cutting Depth 3" RED CATALOG NOS. ARE NOT RECOMMENDED FOR USE WITH 5341, 5342 AND 5343, 5344.



CAT. NO.	BIT SIZE
48-20-5005	1"
48-20-5010	1-1/8"
48-20-5015	1-1/4"
48-20-5020	1-3/8"
48-20-5025	1-1/2"
48-20-5030	1-3/4"
48-20-5035	2"
48-20-5038	2-3/8"
48-20-5040	2-1/2"
48-20-5045	3"
48-20-5050	3-1/2"
48-20-5055	4"
48-20-5060	5"
48-20-5065	6"





For 1-3/4" to 6" Bits

NO. 48-20-6155 * 1" and 1-1/8" Core Bits do



CAT NO	DIA	OAT NO	DIA
CAT. NO.	DIA.	CAT. NO.	DIA.
48-20-6151	1-1/4"	48-20-6158	2-1/2"
48-20-6152	1-3/8"	48-20-6159	3"
48-20-6153	1-1/2"	48-20-6160	3-1/2"
48-20-6156	1-3/4"	48-20-6161	4"
48-20-6157	2"	48-20-6162	5"
48-20-6154	2-3/8"	48-20-6163	6"

CENTER PIN

(Same as furnished with One Piece Core Bit) NO. 48-20-5197

NEW **DRIFT PIN** (Same as furnished with One Piece Core Bit) To remove center pin from core bit. NO. 48-86-0125

48-20-4985 5" 22



BUSHING TOOLS Used to surface concrete. 1-1/2" x 12-1/2" long NO. 48-62-2070 Bushing Tool head only NO. 48-62-0910

MORTAR CUTTING CHISELS For removing old mortar for tuck pointing or caulking. 12" long NO. 48-62-2080 18" long NO. 48-62-2090

BULL POINTS For light demolition work. 12" long NO. 48-62-2000 18" long NO. 48-62-2010

COLD CHISELS For edging, chipping or channeling. 12" long NO. 48-62-2020 18" long NO. 48-62-2030 SCALING CHISELS

For removing weld spatter or scale and cutting between drilled holes in concrete for large openings.

1-1/4" x 12" long NO. 48-62-2040 2" x 12" long NO. 48-62-2050

SLOTTING CHISEL
For slotting and cutting between drilled holes in concrete and masonry. 1-1/2" x 12" long NO. 48-62-2060



For Adapter

Nos. 48-03-3562, 3563 NO.48-95-6080

For Adapter Nos. 48-03-3564, 3565 NO. 48-95-6085



RED CATALOG NOS. ARE NOT RECOMMENDED FOR USE WITH 5341, 5342 AND 5343, 5344.

CAT.NO.	BIT SIZE
48-20-5105	1"
48-20-5110	1-1/8"
48-20-5115	1-1/4"
48-20-5120	1-3/8"
48-20-5125	1-1/2"
48-20-5130	1-3/4"
48-20-5135	2"
48-20-5140	2-1/2"
48-20-5145	3"
48-20-5150	3-1/2"
48-20-5155	4"
48-20-5160	5"
48-20-5165	6"

CENTER PIN*

(Same as furnished with Thick Wall Core Bits) For 1-1/4" to 1-3/8" Bits NO. 48-20-5198

For 1-1/2" to 6" Bits NO. 48-20-5199

> * 1" and 1-1/8" Core Bits do not require a center pin.

REPLACEMENT **GUIDE PLATES**

(Eurnished with Core Bit)

CAT. NO.	DIA.	CAT. NO.	DIA.
48-20-5166	1-1/4"	48-20-5172	3"
48-20-5167	1-3/8"	48-20-5173	3-1/2"
48-20-5168	1-1/2"	48-20-5174	4"
48-20-5169	1-3/4"	48-20-5175	5"
48-20-5170	2"	48-20-5176	6"
48-20-5171	2-1/2"		



HEAVY-DUTY ROTARY HAMMER ACCESSORIES

FOR ROTARY HAMMER MODELS 5300, 5310, 5325



Fits MILWAUKEE 5300, 5310, 5305, 5315 and Skil 726.



Fits MILWAUKEE 5325, 5326, Skil 731, 732, B&D 5048 and Rockwell 602, 1602.

ROTARY PERCUSSION CORE BITS

THICK WALL CORE BIT ADAPTERS



THICK WALL CORE BITS







REPLACEMENT GUIDE PLATES (Same as Furnished with Thick Wall Core Bits) CAT. NO. DIA CAT. NO. DIA 48-20-5166 1-1/4 48-20-5169 1-3/4" 48-20-5167 1-3/8 48-20-5170 2-1/2" 48-20-5168

THICK WALL CORE BIT ADAPTERS

(Order Separately)

7/16" Hex For 1"-1-3/8" Core Bits 18" long NO. 48-03-3566 7/16" Hex For 1-1/2"-2-1/2" Core Bits 18" long NO. 48-03-3567 9/16" Hex For 1"-1-3/8" Core Bits 18" long NO. 48-03-3568 9/16" Hex For 1-1/2"-2-1/2" Core Bits 18" long NO. 48-03-3569

ROTARY PERCUSSION THICK WALL CORE BITS

CAT. NO. BIT SIZE CAT. NO. BIT SIZE BIT SIZE 48-20-5105 48-20-5120 1-3/8" 48-20-5135 1-1/8" 2-1/2" 48-20-5110 48-20-5125 1-1/2 48-20-5140 48-20-5115 48-20-5130 1-3/4 1-1/4"

CENTER PIN*

(Same as furnished with Thick Wall Core Bits) For 1-1/4" to 1-3/8" Bits NO. 48-20-5198 For 1-1/2" to 2-1/2" Bits NO. 48-20-5199 * 1"-1-1/8" Bits do not require a center pin.

CORE BIT ADAPTERS FOR PREVIOUSLY DISCONTINUED ROTARY PERCUSSION

CORE BITS NOS. 48-20-(5250, 5510, 5760, 6010 AND 6050).

NUMBER

CORE BIT ADAPTERS

(Order Separately)

For 1-1/4" Core Bits 7/16" Hex NO. 48-03-3515 For 1-1/4" Core Bits 9/16" Hex NO. 48-03-3530 7/16" Hex For 1-1/2"-2-1/2" Core Bits NO. 48-03-3505 9/16" Hex For 1-1/2"-2-1/2" Core Bits NO. 48-03-3520

CORE BIT ADAPTER 7/16" and 9/16" Hex Shank

HAMMER IRON

For chiseling, channeling, light demolition work, chipping, scaling, slotting and tuckpointing.

For removing weld spatter or scale and cutting between drilled holes in concrete for large openings

NO. 48-62-0210 1-3/4" × 10" long 7/16" Shank NO. 48-62-0355 1-3/4" × 10" long 9/16" Shank

MORTAR CUTTING CHISEL

For removing old mortar for tuckpointing or caulking and seaming.

1" × 11" long NO 48-62-0230 7/16" Shank 1" × 11" long 9/16" Shank NO. 48-62-0362

COLD CHISEL

For edging, chipping or channeling.

NO. 48-62-0250 3/4" × 11" long 7/16" Shank NO. 48-62-0365 3/4" × 11" long 9/16" Shank NO. 48-62-0252 3/4" × 18" long 7/16" Shank NO. 48-62-0367 3/4" × 18" long 9/16" Shank

BULLPOINT

For light demolition work

	-	
NO. 48-62-0240	11" long	7/16" Shank
NO. 48-62-0380	11" long	9/16" Shank
NO. 48-62-0248	18" long	7/16" Shank
NO. 48-62-0382	18" long	9/16" Shank

SLOTTING CHISEL

For slotting and cutting between drilled holes in concrete and masonry

NO. 48-62-0220 1-1/8" × 11" long 7/16" Shank NO. 48-62-0390 1-1/8" × 11" long 9/16" Shank

TAPER CHUCKS

TAPER CHUCKS

FITS MODEL NUMBERS

MII WALIKEE 5300 5310

0	Skil 726	48-66-6500
Y	MILWAUKEE 5325	
	Skil 731, 732 Rockwell 602, 1602 Black & Decker 5048	48-66-6709
	Hilti TE-17 "B" TAPER CHU	48-66-6750 JCKS
	MILWAUKEE 5300, 5310 Skil 726	48-66-6501
	MILWAUKEE 5325 Skil 731, 732 Rockwell 602 Black & Decker 5048	48-66-6710
	Drift when ordered Pins separately	48-86-0090 48-86-0100

separately Use with Chuck NO. 48-66-6708.

GENERAL PURPOSE ONE PIECE BITS

No adapter is required. Bits fit directly into nose of the hammer.

7/16" Hex Shank

DIA.	CATALOG NUMBER	OVERALL LENGTH (IN.)	MAX. DRILLING DEPTH (IN.)
1/2	48-20-1500	10	4.1/4
1/2	48-20-1502	16	10-1/2
1/2	48-20-1504	22	16
9/16	48-20-1560	12	6-1/2
5/8	48-20-1630	10	4-1/2
5/8	48-20-1632	16	10-1/2
5/8	48-20-1634	22	16
11/16	48-20-1690	12	6-1/2
3/4	48-20-1750	10	4-1/2
3/4	48-20-1752	16	10-1/2
3/4	48-20-1754	23-1/2	18
7/8	48-20-1880	12	6-1/2
7/8	48-20-1882	23-1/2	18
1	48-20-2000	12	6-1/2
1	48-20-2002	23-1/2	18
1-1/8	48-20-2130	12	6-1/2
1-1/8	48-20-2132	23-1/2	18
1-1/4	48-20-2250	12	7
1-1/4	48-20-2251	23-1/2	18
1-3/8	48-20-2370	12	7
1.3/8	48-20-2372	23-1/2	18
1.1/2	48-20-2500	15	10

1-1/2 48-20-2502 23-1/2 18

0	BIT DIA. (IN.)	CATALOG NUMBER	OVERALL LENGTH (IN.)	MAX. DRILLING DEPTH (IN.
Y'A	1/2	48-20-1509	10-1/2	4-1/2
7	1/2	48-20-1510	16-1/2	10-1/2
I	1/2	48-20-1511	22-1/2	16-1/2
2	9/16	48-20-1561	13	7
I	5/8	48-20-1631	10	4
2	5/8	48-20-1633	16-1/2	10-1/2
M	5/8	48-20-1635	22-1/2	16-1/2
2	11/16	48-20-1691	13	7
YA .	3/4	48-20-1751	10	4
0	3/4	48-20-1753	16-1/2	10-1/2
M	3/4	48-20-1755	22-1/2	16-1/2
12	7/8	48-20-1881	17	11-1/2
	7/8	48-20-1883	22-1/2	16-1/2
H	1	48-20-2001	12-1/2	7
П	1	48-20-2003	22-1/2	17
П	1-1/8	48-20-2131	17	11-1/2
H	1-1/8	48-20-2133	22-1/2	17
11	1-1/4	48-20-2252	17	11-1/2
	1-1/4	48-20-2253	22-1/2	17
0	1-3/8	48-20-2371	17	11-1/2
	1-3/8	48-20-2373	22	17
	1-1/2	48-20-2501	17	11-1/2
	1-1/2	48-20-2503	22	17

9/16" Hex Shank

TOOTH ANCHOR CHUCKS For Application of Self-Drilling Anchors.

тоотн CHUCK

MUST BE USED WITH "B" TAPER CHUCK OR TAPER CHUCK ASSEMBLY AS ILLUSTRATED

"B" TAPER CHUCK
FOR AUTOMATIC ROTATION

7/16" and 9/16"

HEX. SHANK

B" TAPER CHUCKS

NO. 48-66-6501 7/16" Hex. Shank NO. 48-66-6710 9/16" Hex. Shank

AVAILABLE

тоотн

CHUCK

SELF

ANCHOR

ANCHOR DRILLING

TOOTH ANCHOR CHUCK CATALOG NO. FOR BOLT SIZE O.D. OF ANCHOR 3/16"-1/4" 48-66-6520 7/16" 5/16" 48-66-6540 15/32 48-66-6560 3/8" 9/16" 48-66-6580 11/16 1/2' 48-66-6600 5/8" 27/32

For final setting of anchors $1/2^{\prime\prime}$ and $5/8^{\prime}$ mer and setting tool.

'B" TAPER CHUCK ASSEMBLIES NO. 48-03-3600 7/16" Shank NO. 48-03-3100 Drift Pin 48-86-0100 ii 9/16" Shank

TOOTH ANCHOR CHUCK KIT NO. 49-22-2000

Tooth Anchor Chucks for bolts sizes 3/16", 1/4", 3/8", 1/2" and 5/8"; "B" Taper Chuck (48-66-6501) with Drift Pin

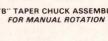
(48-86-0100) and Steel Case

тоотн SELF-ANCHOR DRILLING ANCHOR

B" TAPER CHUCK ASSEMBLY



(48-55-0780)





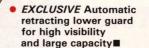
Milwaukee NEW **HEAVY-DUTY 10" MAGNUM® MITER SAW**

POWERFUL 15 AMP MOTOR

FEATURES

- Positive stops at 0°, 15°, 22.5°, 30° and 45° left and right.
- Cast in angle scale 51° left and 59° right sides.
- Electric brake to stop blade quickly.
- Trims 4-1/4" molding.
- Extra tall fence to support large workpieces.
- Spindle lock for quick blade change.
- Convenient built-in carrying handle.
- Locking pin for ease in transporting.
- Easily replaceable kerf plate.







Die cast aluminum base

Super smooth rotating table

> ■ Patents Pending

 Revolutionary override mechanism locks table at any angle

SPECIFICATIONS

			NO LOAD			NET	SHP.			
CATALOG NUMBER	VOLTS AC ONLY	AMPS	SPEED (RPM)	ARBOR	MAXIMUM HEIGHT AT 90°	MAXIMUM HEIGHT AT 45°	MAXIMUM WIDTH AT 90°	MAXIMUM WIDTH AT 45°	WEIGHT LBS.	WEIGHT LBS.

6490 120 15.0 4800 5/8" 3-1/2"H at 3-7/8"W 3-1/2"H at 2-3/4"W 5-9/16"W at 2-1/2"H 3-7/8"W at 2-1/2"H 37 STANDARD EQUIPMENT: 44 Tooth 10" Carbon Steel Blade No. 48-40-1840 and Blade Wrench.

- ACCESSORIES -

PREMIUM CARBIDE-TIPPED BLADES-Precision Ground Teeth-Fully Tempered Body

	NUMBER	OF TEETH	SHAPE	THICKNESS	THICKNESS	ANGLE	BLADE DESCRIPTION
-	48-40-3510	40	ATB*	.125"	.086"	12.5°	Rip and Crosscut
	48-40-3515	50	ATB	.125"	.086"	10.0°	Combination
	48-40-3520	60	ATB	.125"	.086"	12.5°	Crosscut and Miter
	48-40-3525	60	TCG•	.125"	.086"	-5.0°	Non-Ferrous Metals
	48-40-3530	60	TCG	.125"	.086"	12.5°	Plastics and Composites
	48-40-3535	72	TCG	.125"	.086"	8.0°	Laminates and Composites
	48-40-3540	72	ATB	.090"	.063"	12.5°	Thin Kerf Finish and Trim
	48-40-3545	80	ATB	.125"	.086"	12.0°	Finish and Trim



Triple Chip Grind (TCG) is ideal for cutting brittle materials and non-ferrous metals. See recommendation in chart.

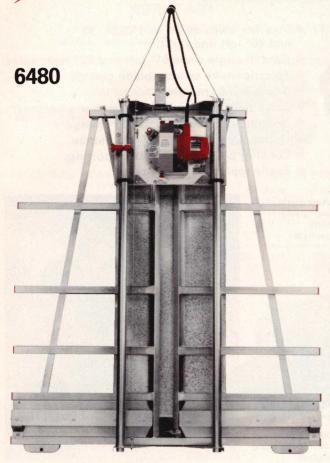


GUIDE ROD ASSEMBLY NO. 49-52-0100 NO. 49-97-0100



HEAVY-DUTY 8" SAW

THE QUICK AND EASY WAY TO CUT UP TO 4' x 8' SECTIONS OF PANELING TO SIZE. CUTTING ACCURACY IS WITHIN 1/32' IN EITHER CROSSCUTTING OR RIPPING DIRECTIONS.



THE PERFECT TOOL FOR

- Building Contractors
 Lumber Yards
- Building Material Suppliers
 Cabinet Shops
- Remodelers
 Sign Shops
 Rental Outlets

FEATURES

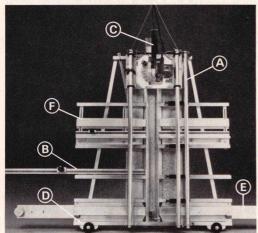
- All steel frame, square tubing is electrically welded it will not warp or twist.
- Cutting accuracy to within 1/32" in either crosscutting or ripping directions.
- Powerful 13 AMP MILWAUKEE built motor.
- Material being ripped can move from either right or left side.
- Retractable counter-weight assists in smooth pull down and return of saw carriage.
- Power unit can be easily changed from crosscutting to ripping.
- Removable blade guard for easy blade changes.
- Saw carriage moves up and down on graphite impregnated nylon roller bearings which require no lubrication.
- Vertical and horizontal scales provide quick and accurately measured cuts.
- Heavy-Duty all ball and roller bearing power unit.
- Smooth acting roller mechanism allows heavy material to gently roll through machine.
- Comes complete with rugged, self-support stand that folds into the unit for easier portability.

SPECIFICATIONS

CATALOG NUMBER	VOLTS AC-DC	AMPS	SPEED (RPM)	BLADE SIZE	ARBOR	(INCHI THICKNESS		HEIGHT (INCHES)	LENGTH (INCHES)	WEIGHT (LBS.)	WEIGHT (LBS.)
6480	120	13.0	5800	8"	5/8"	1-3/4	50	70	60	170	175

STANDARD EQUIPMENT: Includes one No. 48-40-1825 Combination/Rip Saw Blade and 49-96-6200 Box Wrench.

NOTE: This model is not recommended for panels larger than 4'×8' and Accessory Extension Kit No. 49.22.8108 is recommended for ripping panels over 6' long.



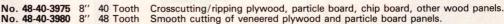
ACCESSORIES

- A. HOLD DOWN BAR KIT No. 49-22-8100 Holds thin, flexible material in place.
- B. QUICK STOP GAUGING KIT No. 49-22-8102 Allows you to quickly and accurately position a sliding aluminum stop block without the need for a wrench. Best suited when custom cutting dimensions are always changing.
- C. DUST COLLECTING KIT No. 49-22-8104 Self-contained kit collects dust and debris.
- D. WHEEL KIT No. 49-22-8106 Includes two wheels and allows the Panel Saw to be wheeled from one location to another.
- E. EXTENSION KIT No. 49-22-8108 Should be purchased whenever material over 8' in length will be cut frequently. Extends the roller material carriage 18" on each end, making the overall roller material carriage 8' in length.
- F. MID-WAY FENCE KIT No. 49-22-8110 Allows you to cut small panels waist high on the panel saw frame. System includes both right and left hand sides. 30" rulers, a manual stop block, and quick change wood fences.

REPLACEMENT MOTORS FOR 6480

CATALOG	VOLTS		
NUMBER	AC-DC	AMPS	RPM
6411	120	13	5800
6466	120	15	5200

CARBIDE-TIPPED SAW BLADES For complete, accurate cutting satisfaction, it is recommended that you use an industrial quality carbide-tipped saw blade designed for panel saw use.



No. 48-40-3985 8" 48 Tooth

60 Tooth General purpose cutting of plastic materials

60 Tooth Very smooth cutting of plywood, veneered wood, solid wood panels. Milwaukee PREE

6369

HEAVY-DUTY 7-1/4" 13 AMP CIRCULAR SAWS

PREFERRED BY PROFESSIONALS FOR POWER AND PERFORMANCE

- LIGHTWEIGHT 11-1/2 LBS.
- BALANCED FOR EASE OF OPERATION
- ALL BALL and ROLLER BEARINGS
- LOWER GUARD CONTOUR LIP DESIGNED FOR SMOOTHER RETRACTION OF LOWER GUARD WHEN CUTTING ANGLES
- HEAVY-DUTY CONSTRUCTION

- AIRFLOW DIRECTS SAWDUST AWAY FROM LINE OF CUT
- 9' CORD LENGTH TO PREVENT PLUG FROM CATCHING ON 8' PANELING
- EXTERNAL BRUSHES
- STRONG—NON-CONDUCTIVE GLASS REINFORCED NYLON HOUSING and HANDLE



ALUMINUM SHOE INCLUDES HIGH SPEED STEEL BLADE, AND 9/16" WRENCH.

6366

ALUMINUM SHOE INCLUDES CARBIDE-TIPPED BLADE, 9/16" WRENCH, AND RIP FENCE.

6367

STEEL SHOE – DOUBLE INSULATED INCLUDES HIGH SPEED STEEL BLADE, AND 9/16" WRENCH.

6368

ALUMINUM SHOE INCLUDES STEEL CARRYING CASE, CARBIDE-TIPPED BLADE, 9/16" WRENCH, AND RIP FENCE.

6369

WITH ELECTRONIC BRAKE

ALUMINUM SHOE—DOUBLE INSULATED INCLUDES CARBIDE-TIPPED BLADE, AND 9/16" WRENCH.

NEW

ELECTRONIC BRAKE FEATURE

This unique MILWAUKEE ELECTRONIC BRAKE COMPONENT, installed within the handle, stops blade travel in LESS THAN 2 SECONDS. Ideal for fast-moving construction professionals who demand a tool that makes their jobs easier and faster. There's no tedious waiting for the blade to stop before making that

for the blade to stop before making that next cut. Perfect for making pocket cuts or blind cuts. Available only on the 6369 model.



6368 INCLUDED AS STANDARD EQUIPMENT: CARBIDE-TIPPED SAW BLADE, 9/16" WRENCH, RIP FENCE, AND STEEL CARRYING CASE.



Spindle Lock for fast, easy blade removal. One knob adjustment for height and one lever adjustment for angle.





Heavy-duty rigid aluminum shoe with angled ends for added stiffness. Double insulated model 6367 has a steel shoe.

Quick return heavy-duty telescoping safety guard for smooth, easy action. Wide lip on guard minimizes wear of rubber bumper.

ACCESSORIES

STEEL CARRYING CASE NO. 48-55-1150

RIP FENCE KIT NO. 49-22-4150 Includes two thumb screws No. 06-87-2450

9/16" UTILITY WRENCH NO. 49-96-6200

"O" GREASE 1 LB. CAN NO. 49-08-4200

SPECIFICATIONS

BLADE SIZE	CATALOG NUMBER	VOLTS	AMPS	NO LOAD SPEED (RPM)	ARBOR	DEPTH OF CUT AT 90°	MAX. DEPTH OF CUT AT 45°	NET WEIGHT LBS.	SHIP WEIGHT LBS.
7-1/4"	6365	120 AC-DC	13.0	5800	5/8"	2-3/8"	1-25/32"	11-1/2	16-1/2
7-1/4"	6366	120 AC-DC	13.0	5800	5/8"	2-3/8"	1-25/32"	11-1/2	16-1/2
7-1/4"	6368	120 AC-DC	13.0	5800	5/8"	2-3/8"	1-25/32"	11-1/2	26-1/2
7-1/4"	6367•	120 AC-DC	13.0	5800	5/8"	2-3/8"	1-25/32"	12	17
7-1/4"	6369•	120 AC ONLY	13.0	5800	5/8"	2-3/8"	1-25/32"	11-1/2	16-1/2

Double Insulated

STANDARD EQUIPMENT: FOR 6365 and 6367—Combination/Rip Saw Blade and 9/16" Wrench.

FOR 6366—Carbide Tipped Framing—Rip Saw Blade, 9/16" Wrench and Rip Fence.

FOR 6368-Steel Carrying Case, Carbide Tipped Framing-Rip Saw Blade, 9/16" Wrench and Rip Fence.

FOR 6369—Carbide Tipped Framing—Rip Saw Blade, and 9/16" Wrench.

For Super Fast, Super Smooth Cutting, Long Lasting... Use CARBIDE TIPPED BLADES

SEE PAGE 56

HEAVY-DUTY CIRCULAR SAWS

8-1/4"

13 AMP MOTOR

6405
6407 DOUBLE INSULATED

BY Combination Rip

Combinati

- SPINDLE LOCK
- BALANCED FOR EASE OF OPERATION
- LOWER GUARD CONTOUR LIP DESIGNED FOR SMOOTHER RETRACTION
- ALL BALL and ROLLER BEARINGS
- SERVICEABLE EXTERNAL BRUSHES
- QUICK RETURN HEAVY-DUTY
- SAFETY TELESCOPING GUARD

9' CORD LENGTH

10-1/4"

15 AMP MOTOR



POWERFUL 10-1/4" SAW WILL CUT, RIP 4 × 4 LUMBER

- ALL BALL and ROLLER BEARINGS
- SERVICEABLE EXTERNAL BRUSHES
- QUICK RETURN HEAVY-DUTY SAFETY TELESCOPING GUARD
- 9' CORD LENGTH



STEEL CARRYING CASE NO. 48-55-1150

1 Lb. Can "O" Grease NO. 49-08-4200 9/16" Utility Wrench NO. 49-96-6200



Clear Line Sighting...operator sees exactly where blade will cut.

RIP FENCE KIT

NO. 49-22-4150

Includes Two Thumb

Screws No. 06-87-2450



Rear and Side Sawdust Chute ejects sawdust away from operator and work.

Easily adjustable Rip Guide attached and held firmly. Furnished as standard equipment.



Rigid Steel Wrap-Around Shoe for Maximum strength and accuracy.

STEEL CARRYING CASE

NO. 48-55-1170 1 Lb. Can "E" Grease NO. 49-08-4121

RIP FENCE KIT

NO. 49-02-0080 Includes Two Wing Screws No. 06-88-0110

SPECIFICATIONS

BLADE SIZE	CATALOG NUMBER	VOLTS AC-DC	AMPS	NO LOAD SPEED (RPM)	ARBOR	DEPTH OF CUT AT 90°	MAX. DEPTH OF CUT AT 45°	NET WEIGHT LBS.	SHIP WEIGHT LBS.
8-1/4"	6405	120	13.0	5800	5/8"	2-3/4"	2-1/8"	13	18
8-1/4"	6407●	120	13.0	5800	5/8"	2-3/4"	2-1/8"	13	18
10-1/4"	6460	120	15.0	5200	3/4"	15/16" to 3-13/16"	5/8" to 2-3/4"	19-1/2	38

Double Insulated

STANDARD EQUIPMENT: FOR 6405 and 6407—Combination/Rip Saw Blade and 9/16" Wrench.

FOR 6460—Steel Carrying Case, 9/16" Utility Wrench, Rip Fence, Combination/Rip Saw Blade and Auxiliary Handle.

Milwaukee

HEAVY-DUTY WORM DRIVE SAWS

6377 7-1/4"

6378 8-1/4"

15 AMP MOTOR

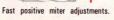
15 AMP MOTOR



SPECIFICALLY DESIGNED FOR TOUGHEST APPLICATIONS

UP TO 1" LUMBER CAN BE USED FOR AN EDGE GUIDE ON EITHER SIDE OF SHOE WHEN RIPPING LARGE PANELS **ALL BALL and ROLLER BEARINGS**







Brush holders with positive brush stop - prevents possible damage of commutator.



Rigid steel wrap around shoe for maximum strength and accuracy.

STEEL CARRYING

NO. 48-55-1101

RIP FENCE KIT NO. 49-22-4210

Includes Thumb Screw No. 06-87-2450.

WORM DRIVE SAW OIL

NO. 49-32-0050 1/2 Pt. Oil

MISCELLANEOUS

9/16" Wrench NO. 49-96-6200

SPECIFICATIONS

BLADE SIZE	CATALOG NUMBER	VOLTS AC-DC	AMPS	NO LOAD SPEED (RPM)	ARBOR	DEPTH OF CUT AT 90°	MAX. DEPTH OF CUT AT 45°	NET WEIGHT LBS.	SHP. WEIGHT LBS.
7-1/4"	6377	120	15.0	4400	DIAMOND	0 to 2-3/8"	0 to 1-7/8"	16-3/4	19-3/4
8-1/4"	6378	120	15.0	4400	DIAMOND	0 to 2-7/8"	0 to 2-1/4"	17-1/4	20-1/4

STANDARD EQUIPMENT: Both models-Combination Blade and 9/16" Wrench. Mulle

7-1/4" **Carbide Tipped** Rip & Crosscut

CARBIDE TIPPED BLADES

SEE PAGE 56

HEAVY-DUTY CARBIDE TIPPED CIRCULAR SAW BLADES

MILWAUKEE'S HIGHEST QUALITY BLADE FOR THE PROFESSIONAL USER. PREMIUM QUALITY STEEL AND CARBIDE, PRECISION GROUND AND TEMPERED.



		NUMBER	OF TEETH	INCHES	INCHES
A	RIP & CROSSCUT*	48-40-3900	20	6-1/2	5/8♦
	A multi-purpose blade for ripping, cross-cutting and	48-40-3915	20	7-1/4	5/8◆
	mitering in hard and soft woods, plywood and	48-40-3925	24	8-1/4	5/8♦
	composition materials. * Available only in Premium line.	48-40-3950	28	10-1/4	5/8-3/4
		48-40-3905	40	6-1/2	5/8♦
		48-40-3920	40	7-1/4	5/8♦
В	FINISH & TRIM	48-40-3930	40	8-1/4	5/8◆
	Especially designed for cross-cutting and mitering in materials where a very smooth cut is necessary, also	48-40-3935	40	9	5/8
	cuts aluminum and other non-ferrous metals.	48-40-3940	40	10	5/8
	and administrative of the first foreign metals.	48-40-3945	60	10	5/8
	NEW NEW	48-40-3955	40	10-1/4	5/8-3/4
C	FRAMING-RIP		law.		
	Designed for fast and accurate ripping along the grain in hard or soft woods where a smooth cross cut is not necessary.	48-40-3910	12	7-1/4	5/8◆
				THE RESERVE	

^{♦ 5/8&}quot; arbor hole with knockout for diamond arbor.

CONTRACTORS

A HIGH QUALITY, OUTSTANDING VALUE BLADE FOR HEAVY-DUTY, VOLUME CUTTING

Carbide Tipped for long lasting and fast cutting. Carbide teeth electronically fused to blade for a strong bond. Available in 16, 20, 24, 30 and 40 teeth to cut a variety of materials: Transite, Masonite, Formica, siding and roofing.

CATAING







		NUMBER	OF TEETH	INCHES	INCHES
D	FRAMING-RIP	48-40-4000	16	7-1/4	5/8 ♦
	Designed for fast and accurate ripping along the grain in hard or soft woods where a smooth cross cut is not	48-40-4020	20	8-1/4	5/8 ♦
	necessary.	48-40-4030	24	10	5/8 Hole
200		STATE OF THE PARTY	PER PERSON	THE REAL PROPERTY.	

PLYWOOD - VENEER*

Recommended for cutting plywood, composition materials and all types of wood where a slightly 48-40-4010 7-1/4 5/8 smoother finish in needed. * Available only in Contractors line.

FINISH & TRIM

Especially designed for cross-cutting and mitering in 48-40-4040 10 5/8 Hole materials where a very smooth cut is necessary, also cuts aluminum and other non-ferrous metals.

10 PACK BULK CARBIDE-TIPPED CIRCULAR SAW BLADES AND DISPLAY RACKS

NO. 48-40-4001 Framing-Rip Blades w/Rack NO. 48-40-4011 Plywood-Veneer Blades w/Rack display and an attractive header.

Extraordinary value! 10 bulk packaged blades either 48-40-4000 Framing-Rip or 48-48-4010 Plywood-Veneer with wire rack for pegboard or counter

10 BULK PACK

NO. 48-40-4002 Framing-Rip NO. 48-40-4012 Plywood-Veneer

NUMBER BLADE DIA. ARBOR HOLE

NUMBER BLADE DIA. ARBOR HOLE

STANDARD QUALITY

UTILITY CARBIDE TIPPED BLADES

CATALO(NUMBER			ARBOR HOLE INCHES
48-40-37	25 24	7-1/4	5/8◆
48-40-38	25 24	8-1/4	5/8♦
♦ 5/8" arbo	r hole with kn	ockout for diame	ond arbor.

HEAVY-DUTY DRY CUTTING DIAMOND BLADES



	CATALOG NUMBER	BLADE DIA. INCHES	RIM THICKNESS	DESCRIPTION	ARBOR HOLE INCHES	MAXIMUM RPM
A	49-93-8005	4	.087	Continuous Rim	7/8 or 20mm, 5/8 Bushing	12,000
В	49-93-8010	4-1/2	.088	Continuous Rim	7/8 or 20mm, 5/8 Bushing	12,000
C	49-93-8015	4-1/2 x 1/4	.25	Segmented	7/8 or 20mm, 5/8 Bushing	12,000
D	49-93-8020	7	.095	Continuous Rim	5/8 or Diamond Knockout	7500
E	49-93-8025	8	.102	Continuous Rim	5/8 or Diamond Knockout	7500
F	49-93-8030	12	.130	Continuous Rim	1	5100

^{♦ 5/8&}quot; arbor hole with knockout for diamond arbor.

HEAVY-DUTY CIRCULAR SAW BLADES HIGH SPEED STEEL

PRECISION SHARPENED

CHROME PLATED

SMOOTH CUTTING CATALOG NUMBER BLADE DIA. ARBOR HOLE



















		NUMBER	OF TEETH	INCHES	INCHES
		48-40-1653	24	6-1/2	5/8♦
A	CHISEL TOOTH COMBINATION	48-40-1752	26	7-1/4	5/8♦
	Free cutting general purpose blade for cutting in any	48-40-1755	26	7-1/4	Diamond
	direction. Rips, crosscuts, miters on both hard and soft woods.	48-40-1822	26	8-1/4	5/8♦
		48-40-1823	26	8-1/4	Diamond
В	MASTER COMBINATION	48-40-1650	60	6-1/2	5/8♦
	An all-purpose blade for smooth, fast cutting. Cuts crosscut, rip, miters for general use.	48-40-1725	60	7-1/4	5/8◆
		48-40-1740	40	7-1/4	5/8♦
C	COMBINATION/RIP	48-40-1825	40	8-1/4	5/8♦
	Most popular all-purpose blade—smooth, fast cut- ting in frame work, etc.—cut-off, ripping, mitering.	48-40-1835	44	10-1/4	3/4
	NEW	48-40-1840	44	10	5/8
D	CROSSCUT/FLOORING				
	Cuts hardwoods, flooring and crating fast. Close-set	48-40-5755	100	7-1/4	5/8◆
	teeth produce smooth-finish and hold edge longer when encountering nails.	48-40-5805	100	8, 8-1/4	5/8◆
E	PLYWOOD/PANELING				
	Fine, extra clean cutting through plywood and	48-40-4720	140	7-1/4	5/8◆
	veneer without lifting and splintering the grain. Rips, crosscuts, miters.	48-40-4800	180	8, 8-1/4	5/8◆
F	HOLLOW GROUND PLANER		00	7.414	5/0 A
	Makes satin-smooth finish cuts on all solid woods. Crosscuts, rips, miters—a professional quality blade	48-40-7725	60	7-1/4	5/8◆
	for use in cabinet work, furniture, etc.	48-40-7800	64	8, 8-1/4	5/8◆
G	THIN RIM PLYWOOD/PANELING Finest blade for satin-smooth finish on plywood, veneers, laminates, Plexiglass and other thin materials. Use for cross-cutting and mitering on cabinet and finish work.	48-4 <mark>0-4726</mark>	156	7-1/4	5/8◆
H	METAL CUTTING For cutting ferrous metals: sheet metal work, corrugated steel roofing, siding and partition studding to 1/8" thickness. Also cuts aluminum, magnesium, copper, brass.	48-40-6661	144	7, 7-1/4	5/8◆

♦5/8" arbor hole with knockout for diamond arbor.

SKIN PACKAGED WITH INSTRUCTIONS PRINTED ON BACK AND COMPLETE SELECTION OF BLADES AVAILABLE

HEAVY-DUTY ABRASIVE CUTTING WHEELS





		CATALOG NUMBER	WHEEL DIA. INCHES	ARBOR HOLE INCHES
		49-92-4310	7	5/8
A	FOR STONE OR CONCRETE	49-92-4370	7-1/4	Diamond
	Safety reinforced nylonbonded of uniform grit and break resistant.	49-92-5000	8	5/8
		49-92-5005	8	Diamond
		49-92-5410	10	3/4
		49-92-4300	7	5/8
В	FOR METAL	49-92-4380	7-1/4	Diamond
ь.	Safety reinforced nylonbonded of uniform grit and break resistant.	49-92-5010	8	5/8
		49-92-5015	8	Diamond
		49-92-5400	10	3/4

HIGH PERFORMANCE SUPER

2 MODELS AVAILABLE

6527

WITH STEEL CARRYING CASE, SUPER SAWZALL BLADE ASSORTMENT AND HEAVY-DUTY 8' QUIK-LOK CORD

WITH STEEL CARRYING CASE, SUPER SAWZALL BLADE ASSORTMENT AND HEAVY-DUTY 8' RUBBER CORD

Powerful 8 AMP MILWAUKEE Built Motor. All Ball and Roller Bearings.

DUAL RANGE/VARIABLE SPEED

 Improved Heavy-Duty Blade Clamp System Blade can be clamped upside down for close quarter flush cuts.

1-1/4" **Blade Travel** For Extremely FAST CUTS.

Heavy-Duty Tool Steel Wobble Plate Mechanism for extra long life.

Patented

Hex Key Stores in Boot For Easy Accessibility.

Rubber Boot For Superior Gripping and Operator Comfort.

Patented



ADJUSTABLE SHOE RELEASE LEVER

Easily adjusts shoe without the use of tools. Allows for more efficient use of blade and depth of cut control. Shoe pivots for full support of tool on the work surface during cutting.

Patented



SMOOTH COUNTER-BALANCED MECHANISM

The **SMOOTHEST** operating. vibration-free saw in the world.

Patented



Ideal for industrial remodeling including pipe, metal, wood, fiberglass, cast iron and any sawable material.

*Standard Equipment with the Super Sawzall No. 6527.

SPECIFICATIONS

CATALOG NUMBER	VOLTS AC ONLY	AMPS	LENGTH OF STROKE	STROKES PER MINUTE	OVERALL LENGTH (INCHES)	NET WGT. LBS.	SHP. WGT. LBS.
6527	120	8.0/6.5	1-1/4"	LOW 0-2000/HIGH 0-2800	17-1/2	8-3/4	19-3/4
6528	120	8.0/6.5	1-1/4"	LOW 0-2000/HIGH 0-2800	17-1/2	8-3/4	19-3/4

STANDARD EQUIPMENT:

NO. 6527-Includes Super Sawzall, Super Sawzall Blade Assortment No. 49-22-1126, Two Hex Keys, Hex Key Holder, Blade Clamp Screw, Steel Carrying Case and 8' Quik-Lok Cord (see page 11). NO. 6528-Same as above, except with Standard 8' Rubber Cord.

ACCESSORIES



SAVZALL

LOW 0-2000 HIGH 0-2800





control.

Quickly plunge-cut through drywall, studs, flooring and joists to install heating/ventilation ducts. Blades can be reversed for cutting in confined areas.



STEEL CARRYING CASE

NO. 48-55-1502 Standard equipment for both Super Sawzalls. Large storage area. Case is designed to fit Super Sawzall with up to 6" blade installed.

Heavy-duty 20 gauge steel. TYPE "L" GREASE For gear case

NO. 49-08-4170 1/2 lb. can NO. 49-08-4175 1 lb. can

HIGH PERFORMANCE SUPER SAWZALL® **BLADES**

MADE IN USA



Designed specifically for use with the Super Sawzall. Matrix II High Speed Steel Teeth with 8% Cobalt. Tough Bi-Metal design - for the fastest cutting, longest blade life available. 1/2" Universal Tang.

lungest	biauc iiic a	valiable. If	_ `	miversur run	9.
CATALOG NUMBER (5 PER POUCH)	CATALOG NUMBER (2 PER CARD)	CATALOG NUMBER (50 PER BOX)	TEETH PER INCH	LENGTH x WIDTH x THICKNESS IN.	RECOMMENDED For Cutting
-	SAWZ	TALLS	4		WOOD CUTTING BLADES FOR CUTTING WOOD, NAIL EMBEDDED, GENERAL ROUGHING-IN, ALL PURPOSE
48-01-5031	48-02-5031	48-01-6031	5/8	6 x3/4x.050	Fast cutting, nail embedded wood, general roughing-in.
48-01-5036	48-02-5036	48-01-6036	6	9 x3/4x.050	Very fast cutting, nail embedded wood, general roughing-in.
48-01-5041	48-02-5041	48-01-6041	4/6	6 x1/2x.050	Shearing action—Very fast cutting circles, contours, nail embedded wood.
٥٠	-01-5162 IIIIIISUP	PER SAWZALL 147	T 231 AAA	TAL USA	METAL CUTTING BLADES FOR CUTTING METAL, SCROLL CUTTING
48-01-5162	48-02-5162		14	3-5/8x5/16x.035	Metal Scroll—Heavy gauge metal, hard rubber, fiber.
	SA.	WZALL:	USA		ALL PURPOSE BLADES FOR CUTTING WOOD, NAIL EMBEDDED WOOD, PLASTICS, FIBERGLASS, METALS, CAST IRON
48-01-5091	48-02-5091	48-01-6091	8/12	6 x3/4x.050	Plastics, composition materials, nail em- bedded wood, non-ferrous metals, cast iron.
48-01-5092	48-02-5092	48-01-6092	10	6x3/4x.035	All woods, nail embedded, composition material, plastic, light ga. non-ferrous mtls.

48-01-5093 48-02-5093 48-01-6093 8/12 8x3/4x.050 All wood, nail embedded, comp. materials, plastics, non-ferrous metals, cast iron. 48-01-5094 48-02-5094 48-01-6094 8/12 12x3/4x.050 Extra Length-All wood, nail embedded, comp. materials, plastic, non-fer. metals, cast iron.	- n	SA Samani Samani Samani	WZALL ³	USA		METAL CUTTING BLADES FOR HEAVY GAUGE METAL, FIBERGLASS
	48-01-5094	48-02-5094	48-01-6094	8/12	12 x3/4x.050	
	48-01-5093	48-02-5093	48-01-6093	8/12	8x3/4x.050	

48-01-5182 48-02-5182 48-01-6182 14 6x3/4x.035 48-01-5184 48-02-5184 48-01-6184 6x3/4x.035 48-01-5186 48-02-5186 48-01-6186 6x3/4x.035

SUPER SAWZALL 7 BLADE

CUTTING BLADES HEAVY GAUGE METAL, **FIBERGLASS**

Sheet metal, bar stock 1/8" and above, angle iron, fiber, hard rubber. Heavy gauge metal, conduit, tubing, channels, pipe. Metal and pipe 18 gauge and under,

trim tubing.

NO. 48-08-0200 See page 63. HEX KEY, SCREW & CLAMP KIT

SAWZALL CUT-OFF FIXTURE

NO. 49-22-5010 Consists of one Hex Key. one blade clamp screw and one blade clamp.

BLADE CLAMP KIT

NO. 49-22-5020 Consists of 10 blade clamps.

BLADE CLAMP SCREW KIT

NO. 49-22-5030 Consists of 10 blade clamp screws.

HEX KEY KIT NO. 49-22-5040

Consists of 10 Hex Keys.

ASSORTMENT NO. 49-22-1126 Includes blades 48-01-5162, 5182, 5184, 5091, 5092, 5031, and 5041. Packaged in reusable vinyl sleeve.



one wood cutting blade No. 48-01-5031 and one metal cutting blade No. 48-01-5184.

HEAVY-DUTY SAWZALL®

CUT ANY SAWABLE MATERIAL

WOOD • NAIL EMBEDDED WOOD • STEEL • CAST IRON • BAR STOCK • ALUMINUM • BRASS CONDUIT • COMPOSITION MATERIALS • HARD RUBBER • CEMENT • BRICK • PLASTER PLASTERBOARD • FORMICA • FIBERGLASS • LEATHER • FELT • DRYWALL • TRANSITE



- ADJUSTABLE PIVOT SHOE
- **DIRECT ACCESS TO BLADE CLAMP SCREW**
- **DIRECT ACCESS TO PIVOT SHOE ADJUSTING SCREWS**
- CORD POSITIONED FOR EASIER **PLUNGE CUTTING**
- ALL BALL AND ROLLER BEARINGS

• PLUNGE CUTS... NEEDS NO STARTING HOLE

Plunge cut directly into floors, walls and other surfaces composed of resilient materials. No starting hole required!

FOR PLUMBERS, HEATING and AIR CONDITIONING CONTRACTORS, ELECTRICIANS, BUILDERS, STEEL FABRICATORS, MAINTENANCE, MANUFAC-TURERS, REMODELERS

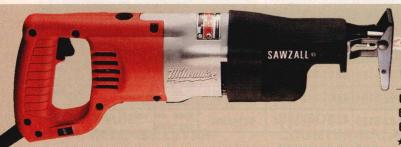
SELECT SUPER-TOUGH™ BI-METAL BLADES (Page 65) FOR ABSOLUTE MAXIMUM CUTTING EFFICIENCY





VARIABLE SPEED WITH TWO SPEED RANGES 0 to 2400 and 0 to 1700

CATALOG NUMBER	VOLTS AC ONLY	AMPS	OF STROKE	STROKES PER MINUTE	OVERALL LENGTH (INCHES)	WGT. LBS.	SHP. WGT. LBS.
6508	120	4	3/4"	0-1700 0-2400	16	7	18



TWO SPEED 2400 or 1700

CATALOG NUMBER	VOLTS AC ONLY	AMPS	LENGTH OF STROKE	STROKES PER MINUTE	OVERALL LENGTH (INCHES)	NET WGT. LBS.	SHP. WGT. LBS.
6511	120	4	3/4"	2400/1700	16	7	18
6512*	120	4	3/4"	2400/1700	16	7	18
6531	120	4	3/4"	2400/1700	16	7	10

OLess Case

STEEL CARRYING CASE NO. 48-55-1501

Standard Equipment for all Sawzalls except No. 6531. Features large storage area for extra Sawzall Blades and accessories. Case designed to fit Sawzall with up to 6" blade, without removal of blade for storage. Heavy-Duty 20 gauge steel.

STANDARD EQUIPMENT - ALL MODELS

SUPER-TOUGH™ BI-METAL SAWZALL BLADE ASSORTMENT NO. 49-22-1125. A total of 7 SAWZALL Blades for wood and metal packaged in a vinyl sleeve. Also included are hex key and holder, extra blade clamp and screw. Heavy-Duty 20 gauge steel carrying case. Full color blade selector chart for fast Sawzall Blade identification. (Case not supplied with Sawzall 6531). 8' Quik-Lok cord set supplied with Sawzall 6507 only.

BI-METAL SAWZALL PROFESSIONAL BLADE ASSORTMENT NO. 49-22-1085



BI-METAL SAWZALL BLADE ASSORTMENT NO. 49-22-1125

Assortment of 7 Bi-Metal Sawzall Blades. One each of Nos. 48-01-(1161, 1162, 1182, 1184, 3031, 3035, 3041). 48-01-3093 All Purpose

CAT. NO.	DESCRIPTION
48-01-1011	Wood Cutting
48-01-1012	Wood Cutting
48-01-1161	Metal Scroll Cutting
48-01-1162	Metal Scroll Cutting
48-01-1163	Metal Scroll Cutting
48-01-1181	Heavy Metal Cutting
48-01-1182	Heavy Metal Cutting
48-01-1183	Heavy Metal Cutting
48-01-1184	Heavy Metal Cutting
48-01-1185	Metal Cutting
48-01-3031	Wood Cutting
48-01-3035	Wood Cutting
48-01-3036	Wood Cutting
48-01-3037	Wood Cutting
48-01-3041	Wood Cutting
48-01-3090	All Purpose
48-01-3092	All Purpose

SHARP! FAST CUTTING! HEAT TREATED FOR MANUFACTURE!

			0 000 04	01/	E0 DED 5	NOV.		
1/2" UNIVERSAL TANG	CATALOG NUMBER (POUCH)	QTY. PER (POUCH)	2 PER PA CATALOG NUMBER (PACK)	QTY. PER (PACK)	CATALOG NUMBER	OTY. TEETH PER PER (BOX) INCH	LGTH.	RECOMMENDED FOR CUTTING
WOOD CUTTING BLADES FOR		OD, N			IOOD ALL DI		ENERA	. paulauma in
WOOD COTTING DETAILS	48-01-3031	5	48-02-3031	2	48-01-4031	50 5/8	6	Fast cutting, nail embedded wood, general roughing-in.
	48-01-3035	5	48-02-3035	2	48-01-4035	50 6	6	Fast cutting curves in nail embedded wood, general
SUPER-TOUGH BI-METAL SANZALI WOOM WITH NASE STP USA 48-91-3038								roughing-in.
SAMPALE Wood Win Link & TPF USA 48-41-3038	48-01-3036	5	48-02-3036	2	48-01-4036	50 6	9	Very fast cutting, nail embedded wood, general roughing-in.
BI-METAL .	48-01-3037	5	48-02-3037	2	48-01-4037	50 6	12	Very fast cutting, nail embedded wood, general roughing-in. Shearing action—Very fast cutting, circles, contours, nail
	48-01-3041	5	48-02-3041	2		4/6	6	embedded wood.
WOOD CUTTING BLADES FOR	CUTTING WO	OD, N	AIL EMBEDD	ED W	OOD, COMPO	ISITION M	ATERI <i>A</i>	ILS
SANCALL Wood With Naih 6 TPI USA 48-01-1012	48-01-1011	5	48-02-1011	2		6	3-1/2	Fast cutting, all woods, nail embedded, composition materials.
BI-METAL	48-01-1012	5	48-02-1012	2	48-01-4012	50 6	6	Fast cutting, all woods, nail embedded, composition materials.
METAL CUTTING BLADES FOR	CUTTING ME	TAL,	SCROLL CUTT	ING				
BI-METAL .	48-01-1161	5	48-02-1161	2	-	10	3-5/8	Metal Scroll—Heavy gauge metal, hard rubber, fiber
MILWAUKEE SUPER-TOUGH BI-METAL 14T 48-01-1162	48-01-1162	5	48-02-1162	2		14	3-5/8	Metal Scroll—Heavy gauge metal, hard rubber, fiber.
	48-01-1163	5	48-02-1163	2	-	18	3-5/8	Metal Scroll—Metal thinner than 1/8" thick.
METAL CUTTING BLADES FOR	HEAVY GAUG	E ME	TAL					
	48-01-1181	5	48-02-1181	2	48-01-4181	50 14	4	Heavy gauge metal, bar stock 1/8" and above, angle iron, hard rubber.
SUPER-YOUGH REMETAL	48-01-1182	5	48-02-1182	2	48-01-4182	50 14	6	Heavy gauge metal, bar stock 1/8" and above, angle iron, fiber, hard rubber.
SUPER-TOUGH BI-METAL SHORT BALL COMING 12 TH COS. 48-91-1104	48-01-1183	5	48-02-1183	2	48-01-4183	50 18	4	Heavy gauge metal, conduit, tubing, channels, pipe, general use.
	48-01-1184	5	48-02-1184	2	48-01-4184	50 18	6	Heavy gauge metal, conduit, tubing, channels, pipe, general use.
BI-METAL	48-01-1185	5	48-02-1185	2	48-01-4185	50 24	4	Metal and pipe 18 ga. and under, trim, tubing.
	48-01-1186	5	48-02-1186	2	48-01-4186	50 24	6	Metal and pipe 18 ga. and under, trim, tubing.
ALL PURPOSE BLADES FOR CU	TING WOOD,	NAIL	EMBEDDED	WOO	D, PLASTICS,	METALS,	CAST	IRON
	48-01-3090	5	48-02-3090	2	-	10	4	All woods, nail embedded, composition materials, plastic, cast aluminum, non-ferrous metals.
SUPER-TOUGH BI-METAL Superational coins is 19 to 84 48-01-3088	48-01-3092	5	48-02-3092	2		10	6	All woods, nail embedded, composition materials, plastic, cast aluminum, non-ferrous metals.
	48-01-3093	5	48-02-3093	2	1.7, =	10/14	8	All woods, nail embedded, composition materials, plastic, cast aluminum, light gauge non ferrous metals, cast iron.
BI-METAL	48-01-3094	5	48-02-3094	2		10/14	12	Extra Length—All woods, nail embedded, composition materials, plastic, cast aluminum, light gauge non-ferrous metals, cast iron.
PLASTER CUTTING BLADES FO	R CUTTING	PLAST	ER WITH N	ETAL	LATH			,
SUPER-TOUCH BI-METAL SANCALI Finite Loning 8 TH USA 48-01-1032	48-01-1052	5	48-02-1052	2		6	6	Long Life—Cutting plaster, plaster with metal lath, plaster- board. Cuts on both forward and backward stroke.
TUNGSTEN CARBIDE BLADES F	OR CUTTING	WOOL), METALS,	FIBER	GLASS, CERAI	MIC MATE	RIALS	
	48-01-1400	3	48-02-1400	1		COARS		
SUPER-TOUGHT TUNGSTER CARBIDE	48-01-1410	3	48-02-1410	1			1 3.1/2	Medium and Coarse Grits for cutting plywood, hardwood floor- ing cast iron, stainless steel, fiberglass materials (polyesters,
						COARSI	6	ing, cast iron, stainless steel, fiberglass materials (polyesters, expoxies, melamines), ceramic tile, cast stone, slate, clay pipe,
TUNGSTEN CARBIDE	48-01-1420	3	48-02-1420	1		GRIT	- b	carbon, brick, plaster, marble, chalkboard.
	48-01-1430	3	48-02-1430	1		COARSE	9	



HEAVY-DUTY SAWZALL® BLADES

CUSTOM MILLED TEETH, SET AND HARDENED FOR MAXIMUM PERFORMANCE

- 1/2" UNIVERSAL TANG FOR RECIPROCATING SAWS
- SOLD IN BOX LOTS ONLY—SEE QUANTITY PER BOX COLUMN

WOOD CUTTING BLADES for cutting wood, nail embedded wood, all purpose, general roughing-in

WOOD COTTING DEADED TO CULTING WOOD,	CATALOG NUMBER (BOX)	TEETH PER INCH	LENGTH	QTY. PER BOX	
366 Cut 1002 11 USA 36 Cut SAWZALL 3T USA 48-00-1002	40.00.4003			10	Nail free woodsfastest cuttingfully hardened to withstand roughest sawing. Teeth, fleam sharpened to
ZIP CUT High Alloy Steel	48-00-1002	3	6	10	shear, not tear wood fibers. Canted shank provides for faster feed, deeper cut and ideal return stroke clearance.
BROW age.	48-00-1012	6	6	10	Nail embedded woods and composition materials.
TUFF BACK TUFF BACK TUFF BACK	48-00-1014	10	6	10	For all woodsnail embedded woods, composition materials and light gauge non-ferrous metals.
High Alloy Steel	48-00-2013	18	12	5	Nail embedded woodsfor opening crates, boxes, removing wood siding and shingles.
SPRING SACK SAWZALL Wood With Kells 5 TPI 48-00-1002	48-00-1022	6	6	5	All woods including nail embedded woods. Hardened
SPRING BACK Bi-Metal	48-00-1024	10	6	5	and tempered to resist bend or twist. Even after severe twist, blade springs right back to its original shape.
MANAGEMENT ACTRIC 63-03-1031	48-00-1031	7	6	5	General roughing-in work in wood and nail embedded
GENERAL PURPOSE Spring Steel	48-00-1032 48-00-1033	7 7	12 9	5 5	woods.
MEMORIE ENGINE TOUCHOUS A SERVICE STATE OF THE SERV	48-00-1035	6	6	10	General roughing-in work in wood and nail embedde
GENERAL PURPOSE Spring Steel	48-00-1036	6	9	10	woods. Thinner and harder than 1031 series for faste cuts.
Millimited. Sawzall Deluxe Sawzall of USA 48:00:1041	48-00-1041	6	6	5	Wood cuttingshear tooth designfleam sharpener
SAWZALL DELUXE Spring Steel	48-00-1042 48-00-1043	6	12 9	3 4	for shearing actionvery fast cutting, long blade life.
	48-00-1062	6	6	10	For nail free woods, plywood and fiberboardA general purpose economy type blade.
ALL PURPOSE Spring Steel	48-00-1064	10	6	10	Nail embedded woods, plywood and insulating board Can also be used for cutting Transite. Blade edge hardened.
Milwaukes Super Tough™ Bi-Metal 48-00-3035 U.S.A.	48-00-3035	6	6	5	
	48-00-3036 48-00-3037	6	9	5 5	Very fast cutting in wood or nail embedded woods General roughing-in work.
Bi-Metal ↑ Milwauket Super Tough™ Bi-Metal 48-00-3031 U.S.A.	40.00.3037	0	12	3	
Bi-Metal	48-00-3031	5/8	6	5	Fast cutting in wood or nail embedded woods. General roughing-in work.
Super Tough™ Bi-Metal 48-00-3041 U.S.A. Bi-Metal	48-00-3041	4/6	6	5	Very fast cutting in wood or nail embedded woods. Shear tooth design/fleam sharpened for shearing action



HEAVY-DUTY SAWZALL® BLADES

CUSTOM MILLED TEETH, SET AND HARDENED FOR MAXIMUM PERFORMANCE

- 1/2" UNIVERSAL TANG FOR RECIPROCATING SAWS
- SOLD IN BOX LOTS ONLY—SEE QUANTITY PER BOX COLUMN

METAL CUTTING BLADES and SPECIAL PURPOSE BLADES

	CATALOG NUMBER (BOX)	TEETH PER INCH	LENGTH INCHES	OTY. PER BOX	RECOMMENDED FOR CUTTING
	48-00-2175	10	8	5	Steel or copper pipe to 4" dia., and also metal decking materials.
	48-00-1171	14	2-1/2	10	Metal heavier than 1/8" thick, angles, bar stock, har
MILWAINEE SIECTELC	48-00-1172 48-00-1179	14	4	10	rubber and fiber.
MILWADIKE ELECTRIC TOOL CORP. 48-00-1179	48-00-1173	18	2-1/2	10	
***************************************	48-00-1174	18	4	10	Heavy gauge metals, conduit, pipe, channels and tubin
METAL CUTTING	48-00-2170•	18	6	10	
High Speed Steel	48-00-1175•	24	2-1/2	10	
	48-00-1176 • 48-00-2171 •	24 24	6	10	Metals lighter than 18 gauge sheet, trim and tubing.
	48-00-1177	32	2-1/2	10	
	48-00-1178	32	4	10	Very light gauge metalssheet trim and tubing.
	48-00-1180	10	4	10	Heavy gauge metals, cast iron, angles, bar stock 1/8
• SUPER-TOUGH BI-METAL	48-00-1181	14	4	10	thick and above. Hard rubber. Fast cutting high spee steel teeth welded to a flexible alloy steel back for high
	48-00-1182	14	6	10	resistance to breakage.
BI-METAL	48-00-1183•	18	4	10	Same characteristics as 1180, 1181, 1182 except fine
	48-00-1184•	18	6	10	teeth for fast cutting of metals 18 gauge to 1/8" thick
	48-00-1185•	24	4	10	conduit, pipe, channels and tubing.
	48-00-1101	14	2-1/2	10	
MILWAUKEE ELECTRIC TOOL CORP. 482 USA 48-00-1103 24 T	48-00-1102	18	2-1/2	10	Scroll cutting metals. 14 tooth for 1/8" and over. 1
METAL SCROLL	48-00-1103•	24	2-1/2	10	tooth – 18 ga. to 1/8". 24 tooth – Lighter than 18 ga.
Bi-Metal Bi-Metal	•	Some Va	rieties of s	tainless	s steel can be cut with these blades.
MILWAUKEE SAWZALL METAL SCROLL 14T 48-00-1162	48-00-1161	10	3-5/8	10	Heavy gauge metal, hard rubber and fiber.
METAL SCROLL Bi-Metal	48-00-1162	14	3-5/8	10	rieavy gauge metal, natu tubbel and liber.
			7 10 7		Sawing intricate shaped and scroll cuts in wood an
	48-00-1121	6	3-5/8	5	synthetic structural materials. (1121) a carbon ste
MILWAUKEE SAWZALL WOOD SCROLL 67 48 00:1151	48-00-1151	6	3-5/8	5	economy blade (Gray). (1151) a high speed steel Delux blade (Black).
WOOD SCROLL	48-00-1141	7	3-5/8	10	Rough cutting irregular contours in wood, fiberboar
See Chart			0 0,0		and asphalt. Spring steel blade (Black).
SUPER-TOUGH BI-METAL	A STATE OF				
SANDALL Plaster Cutting 6 TPI USA 48-00-1052	48-00-1051	6	3-1/2	10	For plaster, plaster with metal lath, plasterboard. Cur
PLASTER CUTTING Bi-Metal	48-00-1052	6	6	10	on both forward and backward strokes.
SCROLL	Name of the last o				Control (Control (Control Control Cont
Tungsten Carbide	49.00.1410	CPIT	2 1/2	2	Medium grit: for brick, carbon, claypipe, chalkboard
	48-00-1410	UNII	3-1/2	3	plywood, hardwood veneer plywood.
PRUNING			E ALL		
High Alloy Steel	48-00-1302	6	12	5	Pruning trees, smooth sawing green woods. Deep too
					design, fleam filed. Clean cuts wood fibers.

SAWZALL ACCESSORIES FOR MODEL NUMBERS 6507, 6508, 6511, 6512 AND 6531

TYPE "A" GREASE NO. 49-08-0500 for gear case 1/2 lb. can TYPE "A" GREASE NO. 49-08-0800 for gear case 1 lb. can TYPE "B" GREASE NO. 49-08-0600 for mechanism 1/2 lb. can TYPE "B" GREASE NO. 49-08-0900 for mechanism 1 lb. can



JOB SAW PACKAGE NO. 48-08-0400

- PERFORMS AS A DRYWALL AND KEYHOLE SAW
- ACCOMMODATES MILWAUKEE SAWZALL BLADES
- INCLUDES 48-01-5092 SUPER SAWZALL BLADE

NO. 48-08-0200



BLADE CLAMP ONLY NO. 42-68-0073

SAWZALL

NO. 48-03-2000

BLADE

(NOTE: NOT FOR USE

WITH 6527 or 6528)



NO. 06-75-2400

NO. 49-22-5080 Consists of 10 blade clamp screws, 2 blade clamps and 2

HEX KEY AND SCREW KIT

NO. 49-22-5050 Consists of 25 hex keys and 50 blade clamp screws.

HEX KEY NO. 49-96-0070

RUBBER FLEX HEX KEY HOLDER

HEAVY-DUTY PORTABLE ELECTRIC BAND SAWS

ALL MODELS USE STANDARD 44-7/8" × 1/2" × .020 BAND SAW BLADES

- Gear drive mechanism is lubricated with grease—no oiling required!
- Precision Ball Bearing Blade Guide
 Ideal for sawing PVC tubing

Front T-Handle for better control

6225

6226

TWO SPEED

200 AND 250 SURFACE FT./MIN.

6227

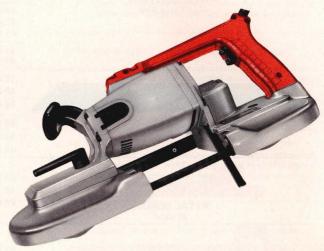
6234

SS CASE W

TRIGGER SPEED CONTROL

0 TO 250 SURFACE FT./MIN.





SPECIFICATIONS

CATALOG NUMBER	NO LOAD SURFACE FT. PER MIN.	VOLTS AC ONLY	AMPS	CAPACITY ROUND STOCK	CAPACITY RECTANGULAR STOCK	LENGTH INCHES	NET WEIGHT LBS.	SHP. WEIGHT LBS.
6225 Less Case	250/200	120	6/5	3-1/2"	3-1/2" × 4-1/2"	20	16	18-1/2
6226	Respond Control		San	ne as 6225, bu	t with Steel Carrying Ca	se	25	27-1/2
6227 Less Case	0-250	120	6	3-1/2"	3-1/2" × 4-1/2"	20	16	18-1/2
6234			San	ne as 6227, bu	t with Steel Carrying Ca	se	25	27-1/2

STANDARD EQUIPMENT: Includes one No. 48-39-0510 quality 14 tooth Super-ToughTM Bi-Metal blade.

ACCESSORIES AND PORTABLE BAND SAW TABLE FOR ALL MILWAUKEE BAND





EASY-CUT PORTABLE BAND SAW BLADE LUBRICANT
Greatly eases cutting applications

Greatly eases cutting application while extending blade life. Includes six 1.5 oz. tubes. NO. 49-08-4206

STEEL CARRYING CASE

When purchased separately for Models 6225 and 6227 NO. 48-55-1920

For Models 6230 and 6236 NO. 48-55-1930

TYPE "G" GREASE

1 lb. can NO. 49-08-4140



HEAVY-DUTY DEEP CUT PORTABLE ELECTRIC BAND SAWS

Large 4-3/4" × 4-3/4" Capacity

ALL MODELS USE STANDARD 44-7/8" × 1/2" × .020 BAND SAW BLADES

- Gear drive mechanism is lubricated with grease-no oiling required!
- Precision Ball Bearing Blade Guide
 Ideal for sawing PVC tubing
 High Torque—Low RPM Worm Gear Mechanism
 Front T-Handle for better control

6230

6232

FAST UP TO 350 SURFACE FT./MIN. TRIGGER SPEED CONTROL

AC/DC MODELS

6238

LESS CASE TWO SPEED

250 AND 350 SURFACE FT./MIN.

0 TO 350 SURFACE FT./MIN.



BAND SAW FOR ANY CONSTRUCTION SITE. CUTS A WIDE RANGE OF MATERIALS WITH FAST LONG LASTING SUPER-TOUGH **BI-METAL** BLADES.

EXCELLENT BALANCE

Center of gravity is located over blade when cutting, resulting in straighter, more accurate cuts.



SPECIFICATIONS

CATALOG NUMBER	NO LOAD SURFACE FT. PER MIN.	VOLTS	AMPS	CAPACITY ROUND STOCK	CAPACITY RECTANGULAR STOCK	LENGTH INCHES	NET WEIGHT LBS.	SHP. WEIGHT LBS.
6230 Less Case	0-350	120 AC ONLY	6	4-3/4"	4-3/4"×4-3/4"	19-3/4	17	20-1/2
6232		Same as	6230, but w	ith Steel Carry	ying Case		27-1/2	31
6236 Less Case	350/250	120 AC/DC	6	4-3/4"	4-3/4"×4-3/4"	19-3/4	17	20-1/2
6238		Same as	6236, but w	ith Steel Carry	ring Case		27-1/2	31

STANDARD EQUIPMENT: Includes one No. 48-39-0510 quality 14 tooth Super-ToughTM Bi-Metal blade.





PORTABLE BAND SAW TABLE NO. 48-08-0260

CONVERTS MILWAUKEE'S PORTABLE **BAND SAWS TO STATIONARY UNITS. CAN** BE MOUNTED ON A WORKBENCH OR USED ON THE JOB WITH 3/4" DIAMETER PIPE FOR LEGS. HEAVY-DUTY CLAMPING **CHAIN AND CRANK NUT EASILY SECURES** ALL SHAPES OF MATERIAL. NET WEIGHT 34 LBS.

PIPE LEGS ARE NOT SUPPLIED WITH UNIT.

SEE PAGES 60, 61 FOR COMPLETE SELECTION OF BAND SAW BLADES

HEAVY-DUTY BAND SAW BLADES

Milwankee FOR USE WITH MILWAUKEE BAND SAWS 44-7/8" × 1/2" × .020

6 TEETH/INCH

8 TEETH/INCH

10 TEETH/INCH

10/14 TEETH/INCH

14 TEETH/INCH

18 TEETH/INCH

24 TEETH/INCH

Refer to RECOMMENDED USE for type of blade.

1/2" to 1"*

1" and up *

FOR CUTTING STOCK 5/16" to 1/2"*

3/16" to 1/2" *

3/16" to 5/16" *

5/32" to 3/16"*

up to 5/32"#



BI-METAL BLADES

Matrix II High Speed Steel Teeth with 8% Cobalt. For the fastest cutting, longest blade life

available.



BI-METAL

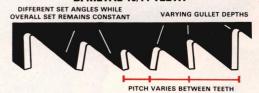
MILWAUKEE SUPER-TOUGH™ Bi-Metal Blades outlast conventional blades up to 3 times, requiring fewer blade changes. Extremely hard and uniform tooth point is electron beam welded to a tough durable backing with high flex life for faster cutting, longer blade life.

outting, it	90.	biddo iiioi		
CATALOG NUMBER	QTY. PER PKG.	RECOMMENDED USE	DIAMETER OR WALL THICKNESS	TEETH PER INCH
48-39-0500	1		5/16" & up	10
48-39-0501	3		5/16" & up	10
48-39-0502	100		5/16" & up	10
48-39-0510	1	High speed cutting of aluminum,	3/16"-5/16"	14
48-39-0511	3	angle iron, bronze, brass, copper,	3/16"-5/16"	14
48-39-0512	100	galvanized pipe, mild steel; and	3/16"-5/16"	14
48-39-0520	1	tougher steels including stainless, chrome, tungsten steels plus other	5/32"-3/16"	18
48-39-0521	3	problem material at slow speed.	5/32"-3/16"	18
48-39-0522	100		5/32"-3/16"	18
48-39-0530	1		Up to 5/32"	24
48-39-0531	3		Up to 5/32"	24
48-39-0532	100		Up to 5/32"	24

BI-METAL 10/14

BI-METAL 10/14 BLADES multiple tooth design with varying set angles and gullet depths break up the harmonic vibrations generated in cutting, resulting in smoother, quieter cutting with longer blade life.

BI-METAL 10/14 TEETH



CATALOG NUMBER	QTY. PER PKG.	RECOMMENDED USE	DIAMETER OR WALL THICKNESS	TEETH PER INCH
48-39-0550	1	Designed for interrupted cutting	3/16" to 1/2"	10/14
48-39-0551	3	applications (tubing, structurals, etc.)	3/16" to 1/2"	10/14
48-39-0552	100	Also production cutting of solids in a variety of sizes or shapes.	3/16" to 1/2"	10/14

HIGH SPEED STEEL

High Speed Steel blades will outlast carbon steel and alloy steel blades for cutting most materials. Ideal for cutting carbon steel, drill rod and other solid and large diameter hard materials.

QTY. PER PKG.	RECOMMENDED USE	DIAMETER OR WALL THICKNESS	TEETH PER INCH
1		5/16" & up	10
100	High speed cutting of aluminum.	5/16" & up	10
1	angle iron, bronze, brass, copper,	3/16"-5/16"	14
100	galvanized pipe, mild steel; and	3/16"-5/16"	14
1	tougher steels including stainless,	5/32"-3/16"	18
100	chrome, tungsten steels plus other	5/32"-3/16"	18
1	problem material at slow speed.	Up to 5/32"	24
100		Up to 5/32"	24
	PER PKG. 1 100 1 100 1 100 1 100 1	PER PKG. RECOMMENDED USE 1 100 High speed cutting of aluminum, angle iron, bronze, brass, copper, 100 galvanized pipe, mild steel; and 1 tougher steels including stainless, 100 chrome, tungsten steels plus other problem material at slow speed.	PER PKG. RECOMMENDED USE 1 100 High speed cutting of aluminum, 1 angle iron, bronze, brass, copper, 100 galvanized pipe, mild steel; and 1 tougher steels including stainless, 100 chrome, tungsten steels plus other problem material at slow speed. OR WALL THICKNESS 5/16" & up 5/16" & up 3/16"-5/16" & 1/5"-5/16" & 1

CARBON STEEL

Carbon Steel Blades - inexpensive utility blade for intermittent use that will cut a wide range of material.

CATALOG NUMBER	QTY. PER PKG.	RECOMMENDED USE	DIAMETER OR WALL THICKNESS	TEETH PER INCH
48-39-0050	3	High speed cutting of aluminum, brass, copper, soft bronze, magne- sium, wood, mild steel; and tougher steels at slow speeds.	1″ & up	6
48-39-0060	3	High speed cutting of aluminum, brass, copper, magnesium, mild steel; and tougher steels at slow speed.	1/2"-1"	8
48-39-0070	3	High speed cutting of aluminum, angle iron, cast iron, bronze, brass, copper, galvanized pipe, mild steel; and tougher steels at slow speed.	5/16"-1/2"	10
48-39-0080	3	High speed cutting of aluminum, angle iron, cast iron, bronze, brass, copper galvanized pipe, mild steel; and tougher steels and electric cable at slow speed.	3/16"-5/16"	14
48-39-0090 48-39-0100	3	High speed cutting of angle iron, bronze, brass, copper galvanized pipe, thin wall tubing, mild steel; and tougher steels at slow speed.	5/32"-3/16" Up to 5/32"	18 24

Milwaukee

HEAVY-DUTY BAND SAW BLADES

FOR USE WITH BAND SAWS USING 53-3/4"×1/2"×.020 BLADES

10 TEETH/INCH

14 TEETH/INCH

18 TEETH/INCH

24 TEETH/INCH

Refer to USE for type of blade

5/16" to 1/2" *

3/16" to 5/16" *

5/32" to 3/16" *

FOR CUTTING STOCK FOR CUTTING STOCK FOR CUTTING STOCK

HIGH SPEED STEEL

High Speed Steel blades will outlast carbon steel and alloy steel blades for cutting most materials. Ideal for cutting carbon steel, drill rod and other solid and large diameter hard materials.

CATALOG NUMBER	QTY. PER PKG.	RECOMMENDED USE	DIAMETER OR WALL THICKNESS	TEETH PER INCH
48-39-0450	1	High speed cutting of aluminum,	5/16" & up	10
48-39-0460	1	angle iron, bronze, brass, copper,	3/16"-5/16"	14
48-39-0470	1	galvanized pipe, mild steel; and	5/32"-3/16"	18
48-39-0480	1	tougher steels including stainless, chrome, tungsten steels plus other problem material at slow speed.	Up to 5/32"	24

CARBON STEEL

Carbon Steel Blades an inexpensive utility blade for intermittent use that will cut a wide range of material.

CATALOG NUMBER	QTY. PER PKG.	RECOMMENDED USE	DIAMETER OR WALL THICKNESS	PER INCH
48-39-0150	3	High speed cutting of aluminum, angle iron, cast iron, bronze, brass, copper, galvanized pipe, mild steel; and tougher steels at slow speed.	5/16"-1/2"	10
48-39-0160	3	High speed cutting of aluminum, angle iron, cast iron, bronze, brass, copper, galvanized pipe, mild steel; and tougher steels and electric cable at slow speed.	3/16"-5/16"	14
48-39-0170 48-39-0180	3 3	High speed cutting of angle iron, bronze, brass, copper, galvanized pipe, thin wall tubing, mild steel; and tougher steels at slow speed	5/32"-3/16" Up to 5/32"	18 24

Milwankee

HEAVY-DUTY HACK SAW FRAMES

12" BI-METAL BLADE HACK SAW FRAME NO. 48-08-0320

MILWAUKEE'S FINEST Hack Saw features a built-in cranking handle to achieve the higher tension required for MILWAUKEE'S Bi-Metal Blades. A tension indicator helps assure proper tension for more efficient cutting and longer blade life. Rectangular tube construction provides greater strength than ordinary hack saws. Knuckle Guard protects hands. Blades can be positioned for 90°, 45° angle or flush cutting.

CRANKING HANDLE TENSION INDICATOR

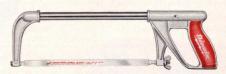
DELUXE 12" HACK SAW FRAME NO. 48-08-0300

MILWAUKEE Deluxe Hack Saw features a new method of holding blade. Blade cannot "twist" or "wobble", therefore giving a more accurate cutting stroke and a longer blade life. Blade may be positioned to cut sideways absolutely flush with a surface. Cuts completely down to surface. A heavy-duty 12" Hack Saw designed for a lifetime of use.



10" TO 12" HACK SAW FRAME NO. 48-08-0310

MILWAUKEE tubular Hack Saw of strong aluminum die cast construction adjusts for 10" or 12" blades. Smooth comfortable front and rear handle grips. Locking screw extends all the way through tube for tighter alignment. Tube walls never press against threads of screw. Front stretcher held in snug fitting square hole - not a "punched hole" in thin wall of tubing. Good solid alignment in both 10" and 12" positions.



HEAVY-DUTY HACK SAW BLADES

MILWAUKEE SUPER-TOUGH™ BI-METAL **BLADES** outlast conventional blades up to 3 times longer, requires fewer blade changes. Can be used in any hack saw frame, but performs better under high tension of Bi-Metal frame.



SUPER-TOUGHTM BI-METAL PACKAGE OF 10 BLADES

CATALOG NUMBER	LENGTH	TEETH PER INCH	SET
48-43-0600	12"	14	RAKER
48-43-0610	12"	18	RAKER
48-43-0620	12"	24	WAVY
48-43-0630	12"	32	WAVY

HIGH SPEED MOLYBDENUM STEEL

PACKA	AGE O	F TO BL	ADES	PACKAGE OF 100 BLADES					
CATALOG NUMBER	LENGTH	TEETH PER INCH	SET	CATALOG NUMBER	LENGTH	TEETH PER INCH	SET		
48-43-0050	12"	14	RAKER	48-43-0550	12"	14	RAKER		
48-43-0060	12"	18	RAKER	48-43-0560	12"	18	RAKER		
48-43-0130	12"	24	WAVY	48-43-0570	12"	24	WAVY		
48-43-0140	12"	32	WAVY	48-43-0580	12"	32	WAVY		
	CATALOG NUMBER 48-43-0050 48-43-0060 48-43-0130	CATALOG NUMBER LENGTH 48-43-0050 12" 48-43-0130 12"	CATALOG NUMBER LENGTH PER INCH 48-43-0050 12" 14 48-43-0060 12" 18 48-43-0130 12" 24	NUMBER LENGTH PER INCH SET 48-43-0050 12" 14 RAKER 48-43-0060 12" 18 RAKER 48-43-0130 12" 24 WAVY	CATALOG NUMBER TEETH LENGTH SET CATALOG NUMBER 48-43-0050 12" 14 RAKER 48-43-0550 48-43-0060 12" 18 RAKER 48-43-0560 48-43-0130 12" 24 WAVY 48-43-0570	CATALOG NUMBER TEETH LENGTH SET CATALOG NUMBER LENGTH 48-43-0050 12" 14 RAKER 48-43-0550 12" 48-43-0060 12" 18 RAKER 48-43-0560 12" 48-43-0130 12" 24 WAVY 48-43-0570 12"	CATALOG NUMBER LENGTH LENGTH TEETH PER INCH SET CATALOG NUMBER LENGTH LENGTH TEETH PER INCH 48-43-0050 12" 14 RAKER 48-43-0550 12" 14 48-43-0060 12" 18 RAKER 48-43-0560 12" 18 48-43-0130 12" 24 WAVY 48-43-0570 12" 24		

CARBON ALLOY STEEL PACKAGE OF 100 BLADES

CATALOG NUMBER	LENGTH	TEETH PER INCH	SET
48-43-0500	12"	14	RAKER
48-43-0510	12"	18	RAKER
48-43-0520	12"	24	WAVY
48-43-0530	12"	32	WAVY

TUNGSTEN CARBIDE 1 BLADE PACKAGE

CATALOG NUMBER	LENGTH	TYPE	GRIT
48-43-0200	12"	HACK	MED
48-43-0250	12"	ROD	N/A

HEAVY-DUTY FAST CUTTING JIG SAWS

Speed plus a full 1" blade stroke is the best combination for fast efficient cutting. Use MILWAUKEE SUPER-TOUGH $^{\text{TM}}$ Bi-Metal blades for longer blade life.

- **DOUBLE INSULATED**
- **POWERFUL MILWAUKEE-BUILT MOTORS BALL AND ROLLER BEARING** CONSTRUCTION

BLADE ROLLER GUIDE

Added saw blade support with roller bearings for more positive cutting action, greater control and less blade breakage.



BLADE CLAMP

Simple fast blade changes... secure holding. Screwdriver eliminates need for hex wrench.

CLEAR LINE OF SIGHT

Motor fan clears dust for maximum visibility.

COUNTER BALANCED for smoother operation.



RIP FENCE FOR ACCURATE STRAIGHT OR CIRCLE CUTS

Optional. Order Accessory NO. 49-22-4090



STEEL CARRYING CASE

NO. 48-55-1077

For Models 6246 and 6256. Also for Previous Models 6245 and 6255.

TYPE "F" GREASE

NO. 49-08-4160 5-1/2 oz. Tube



TRIGGER SPEED CONTROL

VARIABLE SPEED

3.8 AMPS

Simply depress trigger for various speeds from 0 to 3100 strokes per min. For selecting a preset speed between 0 and 3100 adjust knurled button in trigger switch and depress trigger. Lock button provided.

SHOE-TILT ADJUSTMENT

Both Jig Saws can be tilted up to 45° in either direction for angle cutting.

One screw holds shoe securely.





SEE PAGES 69, 70 FOR JIG SAW BLADES

SPECIFICATIONS

Vinyl package for displaying and organizing blades. Consists of one each of SUPER-TOUGH™ BI-METAL blades Nos. 48-42-2120 (2160, 2190, 2300 and 2310).

CATALOG NUMBER	SPEED TYPE	VOLTS	AMPS	STROKES PER MIN.	LENGTH (INS.)	WIDTH (INS.)	HEIGHT (INS.)	NET WGT. (LBS.)	SHP. WGT. (LBS.)
6256	VARIABLE	120 AC ONLY	3.8	0-3100	10-3/8	2-7/8	8-1/2	5-3/4	6-3/4
6246	SINGLE	120 AC/DC	3.8	3100	10-3/8	2-7/8	7-5/8	5-1/2	6-1/2

SUPER-TOUGH™ BI-METAL JIG SAW BLADES

1/4" UNIVERSAL TANG

E Carlos	
to the second second second second second	
0	
1	3

BOSCH TYPE SHANK



BAYONET SHANK



CATALOG NUMBER (5 PER POUCH)	CATALOG NUMBER (2 PER PACK)	LENGTH (INCHES)	WIDTH (INCHES)	TEETH PER INCH	TOOTH TYPE	TYPE OF CUT AND USAGE RECOMMENDATIONS
	HTM BI-METAL	-METAL	CUTTIN	IG		
48-42-2120 48-42-2126	48-42-4120 48-42-4126	2-3/4 3-5/8	5/16 5/16	18 18	Wavy Set Wavy Set	Metals 18 Ga. to 10 Ga. thick conduit, channels, tubin and plastics.
48-42-2160 48-42-2166	48-42-4160 48-42-4166	2-3/4 3-5/8	5/16 5/16	21 21	Wavy Set Wavy Set	Metals from 18 Ga. to 1/8", thinner tubing, slate, an formica.
SUPER-TOUG	H™ BI-METAL-	-ALL PU	RPOSE			
48-42-2170	48-42-4170	3-5/8	5/16	10/14	Varitooth Design	All woods, nail embedded, composites, plastic and ligh gauge non-ferrous metals.
48-42-2190	48-42-4190	3-5/8	5/16	12	Wavy Set	Irregular sections in pipe, angle iron, tubing, fiberglas and structural forms.
SUPER-TOUG	H™ BI-METAL	-WOOD	CUTTIN	G	harman - Jahrania	
48-42-2303 48-42-2305	48-42-4303 48-42-4305	3-5/8 3-1/8	5/16 5/16	6	Ground Ground	Fast, smooth cutting in wood, plywood, plastic an composition materials.
48-42-2306	48-42-4306	3-1/8	5/16	6	Alternate Set	Fast cutting in wood, plywood, plastic and composition materials.
48-42-2313	48-42-4313	3-1/8	5/16	10	Ground (Reverse Tooth)	Smooth finish on top surface when cutting in wood plywood, plastic and composities.
48-42-2316	48-42-4316	3-5/8	3/16	10	Alternate Set Scrollwork	Narrow width for tight, smooth scrolling in wood plastic, composition materials. Not recommende for saws with blade roller support.
48-42-2317	48-42-4317	3-5/8	5/16	10	Ground	Fast, smooth, finer cutting in wood, plywood, plasti and composition materials.
48-42-2319	48-42-4319	3-1/8	5/16	10	Alternate Set	Finer cutting in wood, plywood, plastic and con position materials.
48-42-2320	48-42-4320	3-1/8	5/16	10	Ground	Fast, smooth, finer cutting in wood, plywood, plast and composition materials.
SUPER-TOUG	H™ BI-METAL-	-WOOD	CUTTIN	G-EXTI	RA LENGTH	
48-42-2300	48-42-4300	4-1/8	5/16	6	Alternate Set	Fast cutting in medium to heavy sections in wood plywood, etc.
48-42-2302	48-42-4302	4-1/8	5/16	6	Ground	Fast, smooth cutting in wood, plywood, plastic an composition materials.
48-42-2310	48-42-4310	4-1/8	5/16	10	Alternate Set	Finer cutting for medium to heavy sections in wood plastic and composition materials.
48-42-2311	48-42-4311	4-1/8	5/16	10	Ground	Fast, smooth, finer cutting in wood, plywood, plast and composition materials.
SUPER-TOUG	HTM BI-METAL	-WOOD	CUTTIN	G-EXT	RA LENGTH	
48-42-5100 48-42-5110	rop and and	4 4	5/16 5/16	6 8	Alternate Set Alternate Set	Fast cutting in medium to heavy sections in wood plywood, etc.
48-42-5120	(1496) <u>-</u> 4657	4	5/16	10	Raker Set	Finer cutting for medium to heavy sections in wood plastic and composition materials.
SUPER-TOUG	H™ BI-METAL	-ALL PL	IRPOSE			
48-42-5130	ilinapi - sand	3	5/16	12	Alternate Set	Irregular sections in pipe, angle iron, tubing, fiberglas and structural forms.
SUPER-TOUG	HTM BI-METAL	-METAL	CUTTIN	G		
48-42-5140		3	5/16	14	Raker Set	Metals over 1/8" thick, angle iron, hard rubbe
48-42-5150	al file <u>-</u> call	3	5/16	18	Wavy Set	Metals 18 Ga. to 10 Ga., thick conduit, channel tubing and plastics.
48-42-5160	-	3	5/16	24	Wavy Set	Metals from 18 Ga. to 1/8", thinner tubing slate and formica.
SUPER-TOUG	H™ BI-METAL	-WOOD	CUTTIN	G-EXT	RA LENGTH	
48-42-6100 *	an asima mar	3	3/8	6	Alternate Set	Fast cutting in medium to heavy sections in wood plywood, etc.
48-42-6110 *	<u>-</u>	3	3/8	10	Raker Set	Finer cutting for medium to heavy sections in wood plastic and composition materials.
SUPER-TOUG	HTM BI-METAL	-METAL	CUTTIN	IG		
48-42-6120 ▲ 48-42-6130 *		2 3	1/4 3/8	14 14	Raker Set Raker Set	Metals over 1/8" thick, angle iron, hard rubbe
48-42-6140 ▲	1 (a) -	2	1/4	18	Raker Set	Metals 18 Ga. to 10 Ga., thick conduit, channels tubing and plastics.
48-42-6150 ▲ 48-42-6160 *	Ē	2 3	1/4 3/8	24 24	Wavy Set Wavy Set	Metals from 18 Ga. to 1/8", thinner tubing, slat and formica.
			-10			

^{*} For Porter Cable Jig Saw Models 348, 548, 648, 7348, 7548, 7648, 7549, 7649, 7349.

[▲] For Porter Cable Jig Saw Model 548.

CATALOG

HEAVY-DUTY JIG SAW BLADES

CATALOG NUMBER	LENGTH	WIDTH	PER	
	(INCHES)	(INCHES)	INCH	TYPE OF CUT AND USAGE RECOMMENDATIONS
METAL CUTTING-	-HIGH	SPEED S	STEEL	TO STANDARD THE PROPERTY OF TH
48-42-0100 ♦	2-3/4	5/16	12	Steel to $1/8$ ", non-ferrous metals to $1/4$ ", plastics, fiberglass, rigid conduit, hard rubber and fiber.
48-42-0101 💠	2-3/4	5/16	12	Steel to $1/8$ " non-ferrous metals to $1/4$ ", plastics, fiberglass, rigid conduit, hard rubber and fiber. 25% thicker for most severe applications.
48-42-0120 ♦	2-3/4	5/16	18	Metals 18 gauge to 10 gauge tubing and plastics.
48-42-0140 ♦	2-3/4	5/16	21	Metals lighter than 18 gauge, thin wall tubing, slate and formica.
WOOD CUTTING-	-GENER	AL PUR	POSE DE	LUXE-ALTERNATE SET GROUND-HIGH SPEED STEEL
48-42-0421	3-5/8	5/16	6	Fast cutting in medium to heavy sections in wood, plywood, etc.
WOOD CUTTING-	-GENER	AL PUR	POSE-A	LTERNATE SET—HIGH CARBON STEEL
48-42-0200 ♦	3-1/8	5/16	6	Forward angled for fast aggressive cutting in medium to heavy sections in wood, plywood, etc.
48-42-0220 ♦	3-1/8	5/16	8	Forward angled for smoother aggressive cutting in medium to heavy sections in wood, plywood, etc.
48-42-0240 ♦	3-1/8	1/4	8	Finer cutting in light to medium sections in wood, plywood, formica, plastic and compostion materials. Use $1/4^{\prime\prime}$ width for tighter scroll work.
48-42-0816	4-1/8	5/16	6	
48-42-5000	4	5/16	6	Enteresta de Alternate de grand
(BOSCH TYPE SHANK)				Fast cutting in medium to heavy sections in wood, plywood, etc. Alternate set ground.
48-42-5010 (BOSCH TYPE SHANK)	4	1/4	6	
WOOD CUTTING-	-DELUX	E TAPE	R GROUI	ND-HIGH SPEED STEEL
48-42-0521 ♦	3-5/8	3/8	6	
48-42-0500 ♦	3-5/8	5/16	6	Fast and finer cutting for medium to heavy sections in wood, plywood and composition materials. Use 1/4" wide for tighter scroll work.
48-42-0600	3-5/8	1/4	6	materials. Ose 1/4 wide for tighter scroll work.
WOOD CUTTING-				TOOTH-ABRASIVE MATERIALS-HIGH SPEED STEEL
			The Party of the P	Skip tooth provides extra chip clearance for cutting in fiberglass, tough abrasive materials,
48-42-0850	3-5/8	5/16	8	non-ferrous metals, snythetics, and plaster board. Use 1/4" width for tighter scroll
48-42-0860	3-5/8	1/4	8	work.
WOOD CUTTING-	-EXTRA	FINE D	ELUXE 1	TAPER GROUND-HIGH SPEED STEEL
48-42-0561 ♦	3-5/8	3/8	10	
48-42-0540 ♦	3-5/8	5/16	10	Extra fine cutting in medium to heavy sections in wood, plastics, composition materials, etc. Especially recommended for plywood. Use 1/4" width for tighter scroll work.
		1/4	10	Especially recommended for prywood. Ose 1/4 Width for agricultural
48-42-0620	3-5/8	E TAPE		ND-HIGH CARBON STEEL
WOOD CUTTING-	-DELUX	E IAPE	n unuu	Reverse tooth for smooth finish on top surface. Saws plywood, formica veneer
48-42-0640 ♦	3-1/8	1/4	12	plastics, etc.
48-42-0826	4-1/8	3/8	6	plactice, etc.
48-42-0820	4-1/8	5/16	6	Fast, smooth cutting for medium to heavy sections in wood, plywood, and composition
48-42-0840	4-1/8	1/4	6	materials. Use 1/4" width for tighter scroll work.
48-42-5020	4	5/16	6	
(BOSCH TYPE SHANK)	4.410	010	40	
48-42-0836	4-1/8	3/8	10	
48-42-0830	4-1/8	5/16	10	
48-42-0845	4-1/8	1/4	10	Extra fine cutting for medium to heavy sections in wood, plastics, composition materials
48-42-5030	4	5/16	10	etc. Especially recommended for plywood. Use 1/4" width for tighter scroll world
(BOSCH TYPE SHANK)				
48-42-6000 * (BAYONET SHANK)	3	1/4	10	
WOOD CUTTING-	-DELU)	(E ALTE	RNATE S	SET-HIGH SPEED STEEL
48-42-0400	3-1/8	5/16	6	Forward angled for fast aggressive cutting in medium to heavy sections in wood plywood, etc.
WOOD CUTTING-	-DELU)	CE ALTE	RNATE S	SET-HIGH CARBON STEEL
48-42-0650	2-3/4	5/32	12	Extra thin for tight smooth scroll work.
		CARBON		
48-42-0700	2-1/2	KNIFE	- JIEEL	Cuts insulating material, leather, rubber, cardboard, sponge, felt, etc.
				-TUNGSTEN CARBIDE
ABRASIVE MATE	NAME AND ADDRESS OF THE OWNER, WHEN PERSONS AND ADDRESS O		M GRIT- Grit	- IUNUS IEN CANDIDE
48-42-4801 (1 Per Pack)	2-3/4	3/8	Grit	
48-42-0801	2-3/4	3/8	G-i+	- Cut plywood, cast iron, stainless steel, fiberglass (polyester, epoxies, melamines), ceram
(5 Per Pouch)	2-3/4	310	Grit	tile, cast stone, slate, clay pipe, carbon, brick, plaster, marble and chalkboard.
ABRASIVE MATE	RIALS-	FINE G	RIT-SCR	OLL-TUNGSTEN CARBIDE
48-42-4870	2-3/4	1/4	Grit	
(1 Per Pack)	,			- Cut plywood, cast iron, stainless steel, fiberglass (polyester, epoxies, melamines), cerami
48-42-0870	2-3/4	1/4	Grit	tile, cast stone, slate, clay pipe, carbon, brick, plaster, marble and chalkboard.

HEAVY-DUTY ELECTRIC CHAIN SAW

16" BAR ● 1800 FEET PER MINUTE CHAIN SPEED POWERFUL 2.25 H.P. MOTOR—DOUBLE INSULATED

- LIGHTWEIGHT
- QUIET, SMOOTH RUNNING MOTOR
- INSTANT STARTING EVEN IN FREEZING TEMPERATURES
- NO FLAMMABLE FUEL REQUIRED NO ENGINE EXHAUST

6215



- HANDGUARD ACTUATED BRAKE WITH RESETABLE LOCKOUT SWITCH
- LOW KICKBACK BAR AND CHAIN COMBINATION
- CONVENIENT BRUSH REPLACEMENT
- EASY CHAIN ADJUSTMENT Simply loosen one nut and adjust.

SPECIFICATIONS

CATALOG NUMBER	BAR SIZE	VOLTS	AMPS CHAIN SPEED		OIL TANK CAPACITY	NET WEIGHT	SHIPPING WEIGHT
6215	16" (406mm)	120 AC Only	13	1800 fpm	6-1/2 oz. (190 ml)	11-1/4 lbs.	14 lbs.

STANDARD EQUIPMENT: Chain Saw, 16" (406mm) Sprocket Tip Bar, 3/8" (9.5mm) Pitch Chain, 13mm Wrench, Screwdriver and Scabbard.

- ACCESSORIES -



NO. 48-58-0030 3/8" (9.5mm) Pitch Chain NO. 48-09-5051 16" (406mm) Guide Bar NO. 49-96-7630 13mm Open End Wrench NO. 49-62-0150 Scabbard Chain Repair Kit NO. 49-80-2000 Screwdriver



- CONVENIENTLY LOCATED REVERSING SWITCH
- LIGHTWEIGHT ONLY 3-1/4 LBS.
- MINIMUM OFFSET FOR CLOSE QUARTER WORK
- **POWERFUL 5 AMP MILWAUKEE BUILT MOTOR**
- ALL BALL AND ROLLER BEARINGS

WHEN ORDERED SEPARATELY

LOCATOR NO.49-26-1035

BELT CLIP NO. 48-67-0115

SPECIFICATIONS

CATALOG NUMBER	VOLTS AC ONLY	AMPS	RPM NO LOAD	BIT SHANK SIZE	SPINDLE OFFSET	LGTH. (IN.)	WGT. (LBS.)	SHP. WGT. (LBS.)
6755-1	120	5.0	0-4000	1/4" Hex	3/4"	11-3/8	3-1/4	5

NOTE: Models have reversing type motor and are equipped with lockable trigger switch. STANDARD EQUIPMENT: #2 Phillips Bit, Magnetic Bit Holder No. 48-32-3065, Locator Assembly No. 49-26-1035, Belt Clip No. 48-67-0115.



- POSITIVE DRIVE CLUTCH
- CONVENIENT REVERSING SWITCH ALL BALL AND ROLLER BEARINGS
- MINIMUM OFFSET FOR CLOSE QUARTER WORK
- ENGINEERED FOR BALANCED DESIGN...Lightweight and Compact for easy use in tight quarters
- IMPACT RESISTANT, LIGHTWEIGHT, NON-CONDUCTIVE GLASS REINFORCED NYLON MOTOR HOUSING AND HANDLE - provides a cool gripping surface under heavy duty use
- ALUMINUM GEAR CASE AND DIAPHRAGM supplies greater support for shaft and bearings
- TRIPLE SEALED against dust contamination in gear case
- 8' RUBBER JACKET CORD with separate strain relief for longer cord
- REVERSING TRIGGER SPEED CONTROL SWITCH
- SELF-STOPPING BRUSH CARBONS prevent damage to commutator. Easily accessible external brush cap for quick brush inspec-
- SIMPLE POSITIVE DEPTH ADJUSTMENT

Positive lock adjustment provides a wide range of depth settings. Simplified, one hand adjustment. Push Locking Collar forward and rotate it to right or left. Molded nose assembly is permanently lubricated and will not rust or corrode.

SPECIFICATIONS

CATALOG NUMBER	VOLTS AC ONLY	AMPS	RPM NO LOAD	BIT SHANK SIZE	SPINDLE OFFSET	LGTH. (IN.)	WGT. (LBS.)	SHP. WGT. (LBS.)
6750-1	120	5.0	0-4000	1/4" Hex	3/4"	11-1/4	3-1/2	5
6753-1	120	3.5	0-4000	1/4" Hex	3/4"	11	3-1/8	4-1/2
6747-1	120	5.0	0-2500	1/4" Hex	3/4"	11-1/2	3-5/8	5

NOTE: Models have reversing type motor and are equipped with lockable trigger switch. STANDARD EQUIPMENT

FOR NOS. 6750-1 and 6753-1-#2 Phillips Bit, Magnetic Bit Holder No. 48-32-3065, Magnetic Bit Holder Locator No. 49-26-1030 and Belt Clip No. 48-67-0115.

FOR NO. 6747-1-#2 Phillips Bit, Magnetic Bit Holder No. 48-32-3065, Magnetic Bit Holder Locator No. 49-26-1040 and Belt Clip No. 48-67-0115.

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HEAVY-DUTY MAGNUM® DRYWALL SCREW-SHOOTERS



6749-1

5.2 AMPS VARIABLE SPEED 0-2500 RPM

6754-1

5.2 AMPS VARIABLE SPEED 0-4000 RPM

- POWERFUL MILWAUKEE MOTOR PROVIDES GREATER TORQUE
- QUIK-LOK CORDS SETS FOR FAST, SECURE ATTACHMENT.
 8' STANDARD EQUIPMENT 25' AVAILABLE



- EXCLUSIVE SNAP-ACTION POSITIVE DRIVE CLUTCH prevents tip-to-tip engagement of clutch jaws at the beginning and at the end of a screw driving cycle. This reduces clutch wear, and when depth sensing nosepieces are properly used, greatly prolongs clutch life.
- ALL BALL AND ROLLER BEARINGS
- COMFORTABLE TWO FINGER TRIGGER
- FOUR POSITION HAND GRIP FOR ANY APPLICATION
- EXCLUSIVE BRUSH CARTRIDGE SYSTEM—REMOVABLE BRUSH CARTRIDGE ... change brushes in less than one minute anywhere, with only a screwdriver.

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CATALOG NUMBER	VOLTS AC ONLY	AMPS	RPM NO LOAD	SHANK SIZE	SPINDLE OFFSET	LGTH. (IN.)	WGT. (LBS.)	SHP. WGT. (LBS.)
6749-1 REV.	120	5.2	0-2500	1/4" Hex	7/8"	11-1/2	3-3/4	5-1/2
6754-1 REV.	120	5.2	0-4000	1/4" Hex	7/8"	11-1/4	3-1/2	5

"REV." after Cat. No. indicates reversing type motor. Equipped with lockable trigger switch.

STANDARD EQUIPMENT: FOR 6749-1 and 6754-1—#2 Phillips Bit, Magnetic Bit Holder and Magnetic Bit Holder Locator. 8' Quik-Lok Cord Set No. 48-76-4008 (see page 11).

HEAVY-DUTY/GENERAL PURPOSE SCREW-SHOOTER KIT

YOUR COMPLETE SCREWDRIVER PACKAGE FOR DECKING, ASSEMBLING AND DRYWALL PROJECTS. FOR THE PROFESSIONAL APPLICATION OF DRYWALL, SELF-DRILLING/TAPPING FASTENERS (TEKS®), WOOD AND SHEET METAL SCREWS.

TEKS registered trademark of Illinois Tool Works, Inc.

6767-1 (KIT)

5.0 AMPS GROUNDED VARIABLE SPEED 0-2500 RPM

- POSITIVE DRIVE CLUTCH
- NON-MARRING LOCATORS
- CONVENIENT REVERSING SWITCH
- POWERFUL MILWAUKEE
 5.0 AMP MOTOR
- MINIMUM OFFSET FOR CLOSE QUARTER WORK
- ENGINEERED FOR BALANCED DESIGN
- IMPACT RESISTANT, NON-CONDUCTIVE GLASS REIN-FORCED NYLON MOTOR HOUSING AND HANDLE
- ALUMINUM GEAR CASE AND DIAPHRAGM
- 8' RUBBER JACKETED CORD
- REVERSING TRIGGER
 SPEED CONTROL SWITCH
- SELF-STOPPING BRUSH CARBONS
- MAGNETIC HEX SOCKET SET NO. 49-66-3005 1/4" No. 49-66-3006, 5/16" No. 49-66-3016 and 3/8" No. 49-66-3026.
- SLOTTED BIT AND FINDER SET NO. 48-30-2705 6F-8R, No. 48-30-2600, 8F-10R No. 48-30-2625 and 10F-12R No. 48-30-2650.

CAPACITY

1/4" SCREW IN 1/4" COLD ROLLED STEEL OR NO. 12 SCREW IN COLD ROLLED STEEL.



SPECIFICATIONS

	CATALOG NUMBER	VOLTS AC ONLY	AMPS	RPM NO LOAD	BIT SHANK SIZE	SPINDLE OFFSET	LGTH. (IN.)	WGT. (LBS.)	SHP. WGT. (LBS.)
6	767.1 REV	120	5.0	0.2500	1/4" Hex	3/4"	11.1/2	3-5/8	13

"REV" after Cat. No. indicates reversing type motor. Equipped with lockable trigger switch.

STANDARD EQUIPMENT: Screwdriver 6747-1, Bit Housing No. 48-32-2500, Magnetic Insert Bit Holder No. 48-32-3065, #2

Phillips Insert Bit No. 48-32-1050. Drywall Locator Assembly No. 49-26-1040, 1/4" Locator No. 49-26-0250, 5/16" Locator No. 49-26-0312, 3/8" Locator No. 49-26-0375, Slotted Bit and Finder Set No. 48-30-2705, Package of 10-#2 Phillips Insert Bits No. 48-32-1053, Hex Socket Set No. 49-66-3005, Belt Clip No. 48-67-0115 and Streel Carrying Case No. 48-55-0711.

HOLSTER, GREASE AVAILABLE - SEE PAGE 77.

Milwaukee

HEAVY-DUTY SPECIAL SCREW-SHOOTERS





6543-1 FEATURES

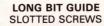
POSITIVE DRIVE CLUTCH

Clutch engages when pressure is applied and stops when pressure is released. Torque is maintained while pressure is applied.

- CONVENIENT REVERSING SWITCH
- POWERFUL MILWAUKEE 5.0 AMP MOTOR
- EXCLUSIVE SNAP-IN BIT GUIDE DESIGN PROVIDES MAXIMUM SUPPORT, GREATLY REDUCING BIT WOBBLE

BIT GUIDES FOR 6543-1 AND PREVIOUS MODELS

6583-1 WITH SERIAL NO. 470-47800 and BELOW 6783-1 WITH SERIAL NO. 471-52400 and BELOW





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SHORT BIT GUIDE

HEX HEAD SCREWS

HEX	SCREW	CATALOG
SIZE	SIZE	NUMBER
1/4"	6F-8R	48-32-0608
5/16"	8F-10R	48-32-0810
3/8"	10F-12R	48-32-1012
	12F-14R	48-32-1214
	14F.16R	48.32.1416

HEX SIZE NUMBER 1/4" 48-32-0250 5/16" 48-32-0312 3/8" 48-32-0375

6583-1 5.0 AMPS VARIABLE SPEED 0-1000 RPM CAPACITY: 1/4" MACHINE SCREWS AND NUTS 1/4" THREAD CUTTING SCREW 5/16" SHEET METAL SCREW SOFT WOOD WITH PILOT HOLE—TO 5/16" LAG SOFT WOOD WITHOUT PILOT HOLE—TO #16 HARD WOOD WITHOUT PILOT HOLE—TO #16 HARD WOOD WITHOUT PILOT HOLE—TO #12

6583-1 and 6783-1 FEATURES

SIMPLIFIED ADJUSTABLE TORQUE RELEASE CLUTCH

Torque output is easily changed externally by turning adjustment collar which positively holds setting. Clutch disengages and driving action stops when pre-set torque is reached.

- ADJUSTABLE TORQUE
 6583-1 10 to 120 IN.-LBS.
 6783-1 10 to 80 IN.-LBS.
- QUICK RELEASE BIT HOLDING MECHANISM
- NO BIT GUIDE REQUIRED
- CONVENIENT REVERSING SWITCH
- POWERFUL MILWAUKEE 5.0 AMP MOTOR

Participant Living	
0	6783-1
	5.0 AMPS VARIABLE SPEED 0-2500 RPM
ROLLED 1/2" COL 1/4" TH	TY: LF-DRILLING SCREW IN 1/4" COLD STEEL, NO. 12 SELF-DRILLING SCREW IN D ROLLED STEEL, NO. 12 WOOD SCREW, READ CUTTING SCREW, 5/16" SHEET SCREW AND 1/4" MACHINE SCREW.

SPECIFICATIONS

CATALOG NUMBER	VOLTS AC ONLY	AMPS	RPM NO LOAD	BIT SHANK SIZE	SPINDLE OFFSET	LGTH. (IN.)	WGT. (LBS.)	WGT. (LBS.)
6543-1 REV.	120	5.0	0-1000	1/4" Hex	3/4"	10-1/8	3-3/4	5-1/2
6583-1 REV.	120	5.0	0-1000	1/4" Hex	3/4"	11-1/2	4	5-1/2
6783-1 REV.	120	5.0	0-2500	1/4" Hex	3/4"	11-1/2	4	5-1/2
"REV." after Cat. I	No. indicates r	eversing ty	pe motor. Equi	pped with lockabl	le trigger swit	ch.		

STANDARD EQUIPMENT

FOR NO. 6543-1—6F-8R Bit and Finder No. 48-30-2600, 10F-12R Bit Finder No. 48-30-2650, 6F-8R Bit Guide No. 48-32-0608, 10F-12R Bit Guide No. 48-32-1012, #2 Phillips Insert Bit No. 48-32-1050, Non. Mag. Bit Holder No. 48-32-3050, 1/4" Bit Guide No. 48-32-0250 and Belt Clip Kit No. 48-67-0115.

FOR NO. 6583-1—6F-8R Bit Finder No. 48-30-2600, 10F-12R Bit and Finder No. 48-30-2650, #2 Phillips Insert Bit No. 48-32-1050, Non. Mag. Bit Holder No. 48-32-3050 and Belt Clip Kit No. 48-67-0115.

FOR NO. $6783 \cdot 1 - 5/16$ Mex Socket Extension No. $49 \cdot 66 \cdot 3016$ and Belt Clip Kit No. $48 \cdot 67 \cdot 0115$.

CARRYING CASE, HOLSTER, GREASE— SEE PAGE 76.



HEAVY-DUTY MAGNUM® SPECIAL SCREW-SHOOTERS

FOR DRIVING SELF-DRILLING, SELF-TAPPING TEKS® FASTENERS TEKS registered trademark of Illinois Tool Works, Inc.





SPECIFICATIONS

	VOLTS		RPM	BIT			NET	SHP.
CATALOG	AC		NO	SHANK	SPINDLE	LGTH.	WGT.	WGT.
NUMBER	ONLY	AMPS	LOAD	SIZE	OFFSET	(IN.)	(LBS.)	(LBS.)

6793-1 REV. 120 5.2 0-2000 1/4" HEX 7/8" 10-1/2 3-3/4 5-1/2

"REV." after Cat. No. indicates reversing type motor. Equipped with lockable trigger switch. STANDARD EQUIPMENT: 5/16" Hex One Piece Socket Extension and 1/4", 5/16", and 3/8" Locators. 8' Quik-Lok Cord Set No. 48-76-4008 (see page 11).



SPECIFICATIONS

	VOLTS		RPM	BIT			NET	SHP.
CATALOG	AC		NO	SHANK	SPINDLE	LGTH.	WGT.	WGT.
NUMBER	ONLY	AMPS	LOAD	SIZE	OFFSET	(IN.)	(LBS.)	(LBS.)

6794-1 REV. 120 5.2 0-2500 1/4" HEX 7/8" 10-1/2 3-3/4 5-1/2

"REV." after Cat. No. indicates reversing type motor. Equipped with lockable trigger switch. STANDARD EQUIPMENT: 5/16" Hex One Piece Socket Extension and 1/4", 5/16", and 3/8" Locators. 8' Quik-Lok Cord Set No. 48-76-4008 (see page 11).

EXCLUSIVE MAGNUM® FEATURES

- **EXCLUSIVE SNAP-ACTION POSITIVE DRIVE CLUTCH** prevents tip-to-tip engagement of clutch jaws at the beginning and at the end of a screw driving cycle. This reduces clutch wear, and when depth sensing nosepieces are properly used, greatly prolongs clutch life.
- **ALL BALL AND ROLLER BEARINGS**
- **POWERFUL MILWAUKEE MOTOR PROVIDES GREATER TORQUE**
- QUIK-LOK CORD SETS FOR FAST, SECURE ATTACHMENT. 8' STANDARD EQUIPMENT -25° and 50' AVAILABLE.
- **EXCLUSIVE BRUSH CARTRIDGE SYSTEM REMOVABLE BRUSH CARTRIDGE...** change brushes in less than one minute anywhere, with only a screwdriver. CAUTION Before servicing, disconnect power cord. Next, loosen Phillips/slotted brush-holder screw and pull out cartridge. SELF-STOPPING BRUSHES. Instant brush replacement by using spares stored in cartridge system.

ACCESSORIES CARRYING CASE, HOLSTER, **GREASE AVAILABLE**—SEE PAGE 77

CATALOG NUMBER

DESCRIPTION

QUIK-LOK CORD SETS 48-76-4008 8' QUIK-LOK 48-76-4025 25' QUIK-LOK

QUIK-LOK CORD SETS WITH TWIST LOCK PLUG

48-76-4108 8' QUIK-LOK W/TWIST LOCK PLUG 48-76-4125 25' QUIK-LOK W/TWIST LOCK PLUG See Page 11 for Full Description.

HEAVY-DUTY SPECIAL SCREW-SHOOTER



FOR DRIVING SELF-DRILLING, SELF-TAPPING TEKS® FASTENERS TEKS registered trademark of Illinois Tool Works, Inc.

- POSITIVE DRIVE CLUTCH Engages when pressure is applied. Driving action stops and clutch disengages when pressure is released or when locator contacts work surface. Depth control is adjustable in increments of 1/64" from outside of tool.
- **NON-MARRING LOCATORS**
- CONVENIENT REVERSING SWITCH
- **POWERFUL MILWAUKEE 5.0 AMP MOTOR**
- **ALL BALL AND ROLLER BEARINGS**

SPECIFICATIONS

CATALOG NUMBER	VOLTS AC ONLY	AMPS	RPM NO LOAD	SHANK SIZE	SPINDLE OFFSET	LGTH. (IN.)	WGT. (LBS.)	SHP. WGT. (LBS.)
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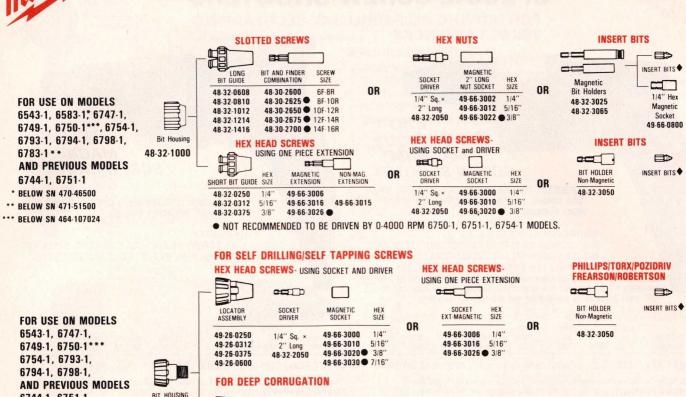
6798-1 REV. 120 5.0 0-2500 1/4" HEX 3/4" 10-1/2 3-3/4 5-1/2

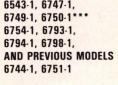
"REV." after Cat. No. indicates reversing type motor. Equipped with lockable trigger switch. STANDARD EQUIPMENT: 5/16" Hex One Piece Socket Extension No. 49-66-3016, 1/4" Locator No. 49-26-0250, 5/16" Locator No. 49-26-0312, 3/8" Locator No. 49-26-0375 and Belt Clip Kit No. 48-67-0115

CARRYING CASE, HOLSTER, GREASE AVAILABLE - SEE PAGE 77



HEAVY-DUTY SCREW-SHOOTER ACCESSORIES





*** BELOW SN 464-107024



48-32-2500 (Fine Thread)

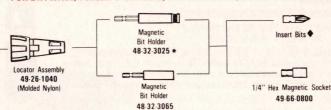
48-32-2505

(Coarse Thread) For previous nylon gear case Magnums



NOT RECOMMENDED TO BE DRIVEN BY 0-4000 RPM 6750-1, 6751-1, 6754-1 MODELS.

FOR DRYWALL, PHILLIPS SCREWS, TORX SCREWS, FREARSON SCREWS, ROBERTSON SCREWS



♦ Bulk packages of 1" long Phillips Insert Bits are available in quantities of 10, 25 and 50.

HEX SOCKETS ONLY

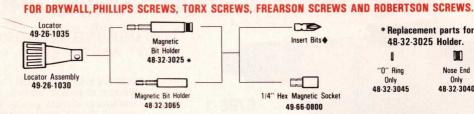
MAGNETIC 5/16" 49-66-3010

3/8" 49-66-3020

FOR USE ON MODEL 6755-1

FOR USE ON MODELS 6753-1 AND 6750-1*

* ABOVE SN 464-110000



* Replacement parts for 48-32-3025 Holder.

"0" Ring Nose End Only 48-32-3040 48-32-3045



SCREWDRIVER BIT SET NO. 48-30-0200

Includes 4 Phillips, 5 slotted, 5 hex, 4 square recess, 6 Torx®, 2 Pozidriv® bits, 1/4" adapter, magnetic bit holder, 1/4" hex



SLOTTED BIT AND FINDER SET

NO. 48-30-2705 Includes 48-30-2600 6F-8R, 48-30-2625 8F-10R, and 48-30-2650 10F-12R.



HEX SOCKET SET

NO. 49-66-3005 Includes 49-66-3006 1/4" socket, 49-66-3016 5/16" socket, 49-66-3026 3/8' socket



DRIVER DRILL

RIT SET NO. 48-30-0101

Includes 1/4" socket driver, 6F-7R slotted bit, #1 and #2 Phillips bit, 1/4" and 3/16" twist bits and two 1/8" bits.



1/4" HEX SHANK DRIVE SCREWDRIVER BIT SET

NO. 48-30-0100 Set includes one each of 48-30-1500 #3 Phillips Bit 48-30-1510 #1 Phillips Bit 48-30-1520 #2 Phillips Bit 48-30-2600 Bit and Finder 6F-8R

48-30-2625 Bit and Finder 8F-10R Bit and Finder 10F-12R 48-30-2650 48-32-2050 1/4" Sq. Socket Driver

Milwaukee

HEAVY-DUTY SCREW-SHOOTER ACCESSORIES



Wood and Sheet Metal Screws Best results when driven at 2500 RPM

















DEEP CORRUGATION



KEY	DESCRIPTION	CATALOG NO
A	Bit Guide Housing	48-32-1000
B1 B2	1/4" Hex Bit Guide 5/16" Hex Bit Guide	48-32-0250 48-32-0312
В3	3/8" Hex Bit Guide	48-32-0375
C1	6F-8R Bit Guide	48-32-0608
C2 C3 C4 C5	8F-10R Bit Guide 10F-12R Bit Guide 12F-14R Bit Guide 14F-16R Bit Guide	48-32-0810 48-32-1012 48-32-1214 48-32-1416
D1	Bit Housing (Fine Thread)	48-32-2500
D2	Bit Housing (Coarse Thread)	48-32-2505
E1 E2	1/4" Hex Locator 5/16" Hex Locator	49-26-0250 49-26-0312
E3 E4	3/8" Hex Locator 7/16" Hex Locator	49-26-0375 49-26-0600
F1	Molded Drywall Locator	49-26-1040
G1	Molded Drywall Locator for 6750-1 and 6753-1	49-26-1030
Molded Drywall Locator for 6755-1		49-26-1035
Н	Depth Adjuster	49-26-2500
I1 I2	5/16" Hex Locator Tip 3/8" Hex Locator Tip	49-78-0312 49-78-0375

POWER BITS



PHILLIPS

DESCRIPTION	SCREW SIZE	CATALOG NO.
1-15/16" Long Bits for Slotted Head Screws	6F-7R 8F-10R 10F-12R 12F-14R	48-30-0500 48-30-0505 48-30-0510 48-30-0515
2" Long Phillips Bits	#1 #2 #3	48-30-1510 48-30-1520 48-30-1500
3" Long Phillips Bit	#2	48-30-1525

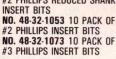
TOOL

HOLSTER





NO. 48-32-1033 10 PACK OF **#1 PHILLIPS INSERT BITS** NO. 48-32-1043 10 PACK OF #2 PHILLIPS REDUCED SHANK NO. 48-32-1053 10 PACK OF







HAND SCREWDRIVER

NO. 48-32-1600

UTILITY BELT NO. 49-17-0256

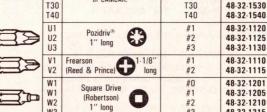


NO. 48-55-0711 13-1/2" long, 6" high, 8-3/4" wide.

BIT HOLDERS • SOCKETS • EXTENSIONS • BITS and FINDERS

	KEY	DESCRIPTION	SIZE	CATALOG NO.	FOR USE WITH
	J	Magnetic Bit Holder		48-32-3025	G, F1, or C1
60	K	Magnetic Bit Holder	- 10 m	48-32-3065	G, F1, or C1
600	L	Non-Mag. Bit Holder		48-32-3050	E1 or B1
	M1	1/4" Sq. × 2" Socket Driver		48-32-2050	N or O
	M2	1/4" Sq. × 4" Socket Driver		48-32-2055	H & I 1 & N2 H & I 2 & N3
	N1 N2 N3 N4	Hex Sockets Only Magnetic	1/4" 5/16" 3/8" 7/16"	49-66-3000 49-66-3010 49-66-3020 49-66-3030	M1 & E1 or B1 M1 & E2 or B2 M1 & E3 or B3 M1 & E4
	01 02 03	2" Lg. Hex Nut Mag- netic Sockets With Bolt Clearance	1/4" 5/16" 3/8"	49-66-3002 49-66-3012 49-66-3022	M1 & C1 M1 & C2 M1 & C3
	Р	1 Pc. Hex Socket Extension Non-Magnetic	5/16"	49-66-3015	E2 or B2
	01 02 03	1 Pc. Hex Socket Extension Magnetic	1/4" 5/16" 3/8"	49-66-3006 49-66-3016 49-66-3026	E1 or B1 E2 or B2 E3 or B3
	R1 R2 R3 R4 R5	Bit and Finder Combinations (Slotted Screws) 3-1/2" long	6F-8R 8F-10R 10F-12R 12F-14R 14F-16R	48-30-2600 48-30-2625 48-30-2650 48-30-2675 48-30-2700	C1 C2 C3 C4 C5
	S1	Bit Holder	1/4"	48-32-3055	48-32-1600
	S2	1/4" Socket Adapter	1/4"	48-32-2060	48-32-1600

	OL	114 Oocket Haapter		40 02 2000	10 02 1000
			INSERT BITS		
(Regular)	T0 T1 T1 T1 T1		#0 #1 #1 (QTY. OF 10) #1 (QTY. OF 25) #1 (QTY. OF 50)	48-32-1020 48-32-1030 48-32-1033 48-32-1031 48-32-1032	
(Regular)	T2 T2 T2 T2	Phillips 1" long	#2 #2 (OTY. OF 10) #2 (OTY. OF 25) #2 (OTY. OF 50)	48-32-1040 48-32-1043 48-32-1041 48-32-1042	Reduced Diameter Insert Bits Ideal for Drywall
(Reduced)	T2 T2 T2 T2		#2 #2 (QTY. OF 10) #2 (QTY. OF 25) #2 (QTY. OF 50)	48-32-1050 48-32-1053 48-32-1051 48-32-1052	Phillips Bit in Quantities of 10 Come Packaged in a Reuseable
(Regular)	(Regular) T3		#3 #3 (QTY. OF 10)	48-32-1070 48-32-1073	Vinyl Pouch. See page 99.
	T4 T4 T4 T4 T4	Slot Screw Insert Bit 1" long	0F-1R 3F-4R 5F-6R 8F-10R 12F-14R	48-32-1300 48-32-1320 48-32-1340 48-32-1360 48-32-1380	
	T5 T5 T5 T5 T5	Allen Head 1" long	5/64" 3/32" 7/64" 1/8" 9/64"	48-32-1400 48-32-1420 48-32-1440 48-32-1460 48-32-1480	
	T6 T8 T9 T10 T15 T20 T25	Torx® 1 long Torx® registered tradename of CAMCAR.	T6 T8 T9 T10 T15 T20 T25	48-32-1506 48-32-1508 48-32-1509 48-32-1510 48-32-1515 48-32-1520 48-32-1525	
	TOO	UI CANICAN.	T00	40 00 4500	1



Slotted Screw

Insert Bits

1-1/2" long

Magnetic Insert Socket

90mm Phillips

45mm Slotted



W3

X1

X2

X3

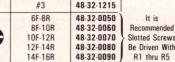
X4

X5

Y1







48-32-1060

48-32-0420

T30

1/4"

#2

8F-10R



J, K, L & S1

77

Milwankee

HEAVY-DUTY IMPACT WRENCH

1/2" SQUARE DRIVE WITH BALL DETENT



FAST 2800 IMPACTS PER MIN. 200 FT.-LBS. TORQUE

for heavy-duty industrial applications.

POWERFUL 6.8 AMP **MILWAUKEE** motor

BALANCED COMPACT LIGHTWEIGHT

- GLASS REINFORCED NYLON HANDLE AND MOTOR HOUSING strong, lightweight, non-conductive. Textured nylon handle helps keep grip cool.
- HEAVY-DUTY ALUMINUM GEAR CASE
- **EASY ACCESS TO BRUSHES**
- **GROUNDED**

9069 1/2" SQUARE DRIVE KIT



STEEL CARRYING CASE ONLY

Without tool or accessories. NO. 48-55-5010

SPECIFICATIONS

CATALOG NUMBER	VOLTS AC-DC	AMPS	IMPACTS PER MIN.	NO LOAD RPM	TORQUE FTLBS.	LENGTH (INS.)	WGT. (LBS.)	SHP. WGT. (LBS.)
9065	120	6.8	2800	2400	200	9-15/16	6	7
9069 KIT	120	6.8	2800	2400	200	9-15/16	13	13-3/4

Kit contains No. 9065 Impact Wrench, Steel Carrying Case and the following sizes of Hex Sockets with 1/2" square drive. 1/2"

NO. 49-66-3090 NO. 49-66-3100 NO. 49-66-3110 NO. 49-66-3120 NO. 49-66-3130

NO. 49-66-3080

SOCKETS ALSO SOLD SEPARATELY

1/2" SQUARE DRIVE IMPACT WRENCH ACCESSORIES



QUICK CHANGE CHUCK NO. 48-66-0061

Used with 7/16" Socket Driver and Magnetic Sockets.

7/16" SOCKET DRIVER AND MAGNETIC SOCKETS

For hex head screws and TEKS®

SOCKET DRIVER ★ NO. 48-32-2510 NO. 49-66-3170 5/16" SOCKET ★ NO. 49-66-3180 3/8" SOCKET★ 7/16" SOCKET ★ NO. 49-66-3190 NO. 49-66-3200 1/2" SOCKET ★

★ 3/8" Square Drive.

TEKS® registered trademark of Illinois Tool Works, Inc.

POSITIVE DETENT KIT NO. 49-17-0405

Replaces standard round detent pin on square drive. Socket will not slip off unless detent pin is pressed in. Below serial no. 656-38701, use No. 49-17-0400 Positive Detent Kit.



9/16"

5/8"

11/16" 3/4"

13/16"

UNIVERSAL JOINT NO. 48-03-0500

Fits 1/2" Square Drive and used with Hex Sockets to reach difficult places at various angles...also allows clearance around obstructions.



TOOL HANGER NO. 49-17-0230 For Impact Wrench model 9065.

EXTENSION BAR NO. 48-95-5000 Adapts to 1/2" Square Drive. Provides 5" additional length where required for use with sockets.



PROTECTIVE RUBBER RINGS BUMPER KIT NO. 48-50-1000

Protective Rubber Rings for Impact Wrench No. 9065.

TYPE "E" GREASE NO. 49-08-4121 1 lb. can

ACCESSORIES FOR PREVIOUS MILWAUKEE 1/2" IMPACT WRENCHES MODELS 9052, 9057, 9051 and 9056



KEYLESS CHUCK NO. 48-66-0010

Adapts to 1/2" Square Drive with capacity for accessories with 1/8" to 1/2" diameter shanks.



TOOL HANGER NO. 49-17-0220

For Impact Wrench models 9051 and 9056.

Milwankee

HEAVY-DUTY ROUTERS

POWERFUL, LIGHTWEIGHT, FOR EXTRA HEAVY-DUTY JOBS

- FUNCTIONAL TRIGGER-HANDLE GROUPING
- **OUT-OF-WAY ELECTRIC CORD**
- FLAT TOP FOR STEADY POSITIONING

For changing bits, removing base or measuring bit for depth of cut.

ACCURATE SIMPLE DEPTH ADJUSTMENT

Adjusting ring, marked in 1/64" graduations, permits friction-free operation with locking device to maintain depth-of-cut.

HEAVY-DUTY SUB BASE

With large openings for maximum visibility.

SPECIFICATIONS

CATALOG NUMBER	VOLTS AC-DC	AMPS	MAXIMUM TOOL POWER OUTPUT H.P.	SPEED (NO LOAD) RPM	COLLET CAPACITY	SUB BASE DIA.	OVER- ALL HGT.	NET WGT. (LBS.)	SHP. WGT. (LBS.)
5620	120	8	1.00	23,000	1/4"-3/8"	6"	8"	8	10
5660	120	10	1.50	24,500	1/4"-3/8"-1/2"	6"	8"	8-1/2	11
5680	120	12	2.00	26,000	1/4"-3/8"-1/2"	6"	8"	8-3/4	11-1/4

STANDARD EQUIPMENT

1.00 H.P. ROUTER Model 5620 includes a 1/4" Collet No. 48-66-0980, a 7/8" Open End Wrench No. 49-96-4070, a 1" Open End Wrench No. 49-96-4075 and Router Base No. 48-10-0070.

1.50 H.P. ROUTER Model 5660 includes a 1/4" Collet No. 48-66-0985, a 7/8" Open End Wrench No. 49-96-4070, a 1-1/4" Open End Wrench No. 49-96-4100 and Router Base No. 48-10-0070.

2.00 H.P. ROUTER Model 5680 includes a 1/2" Collet No. 48-66-1010, a 7/8" Open End Wrench No. 49-96-4070, a 1-1/4" Open End Wrench No. 49-96-4100 and Router Base No. 48-10-0070.

MOTORS ONLY (Less Router Base)

NO. 5610 for 1.00 H.P. Unit

Includes $1/4^{\prime\prime}$ collet (No. 48-66-0980), a $7/8^{\prime\prime}$ open end wrench (No. 49-96-4070) and a $1^{\prime\prime}$ open end wrench (No. 49-96-4075).

NO. 5650 Motor for 1.50 H.P. Unit

Includes 1/4" collet (No. 48-66-0985), a 7/8" open end wrench (No. 49-96-4070) and a 1-1/4" open end wrench (No. 49-96-4100).

NO. 5670 Motor for 2.00 H.P. Unit

Includes 1/2" collet (No. 48-66-1010), a 7/8" open end wrench (No. 49-96-4070) and a $1\cdot1/4$ " open end wrench (No. 49-96-4100).

BASE ASSEMBLY ONLY

NO. 48-10-0070

For 1.00, 1.50 and 2.00 H.P. units.

Base includes 2 handles, sub base and wing lock nut.



STEEL CARRYING CASE **FOR MILWAUKEE** ROUTERS NO. 48-55-0810



5620 1.00 HP 8 AMPS

5660 1.50 HP 10 AMPS

5680 12 AMPS





ROUTER ACCESSORIES



COLLETS FOR MILWAUKEE ROUTERS

1.00 H.P. MODEL

				30 * 30 *		1/4" 3/8"		LLET
			H.P.	Model	with	serial	no.	above
	-122							
NO	A	22 0	nn	0.0		11/11	CO	HILLI

1/4" COLLET NO. 48-66-0940 1.50 and 2.00 H.P. MODELS

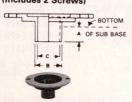
	The Party of the P	
NO. 48-66-0985 *	1/4"	COLLET
NO. 48-66-1000*	3/8"	COLLET
NO 48.66.1010*	1/2"	COLLET

* For 1.50 H.P. Model with serial no. above 452-19550 and 2.00 H.P. Model with serial no. above 608-2566

" COLLET
" COLLET
" COLLET

GENERAL TEMPLET GUIDES AND HINGE BUTT GUIDE

For 1.00, 1.50 and 2.00 H.P. Routers (Includes 2 Screws)



	DII	MENSIU	NS	
TEMPLET	A	В	C	NUMBER
GENERAL	5/16	1/4	3/16	49-54-050
GENERAL	3/16	3/8	5/16	49-54-0510
GENERAL	5/16	7/16	3/8	49-54-0520
GENERAL	3/16	5/8	9/16	49-54-0530
HINCE DUTT	7/16	E10	0/16	AO EA DEEL

VENEER TRIM KIT

NO. 49-54-0300

For cutting hard plastic laminates. Comes com-

plete with base, mounting screws, combination straight and bevel trim bit and extra nylon guide.



ROUTER GUIDE

NO. 49-54-0200

For straight cuts. Includes Trammel Point Assembly.



TRAMMEL POINT **ASSEMBLY** NO. 49-54-0210

For cutting circles.

OPEN END WRENCHES

(See Standard Equipment)

7/8" WRENCH NO. 49-96-4070 1" WRENCH NO 49-96-4075 1-1/8" WRENCH NO. 49-96-4080

1-1/4" WRENCH NO. 49-96-4100

DOOR AND JAMB BUTT TEMPLET KIT

NO. 49-54-0101

Includes case, templet, link rail assemblies, templet nails, end gauges and hinge butt guide No. 49-54-0550 for use with MILWAUKEE ROUTERS. Will mortise any 6'6", 6'8" or 7' door and any hinge size 2-1/2" to 5-1/2". Detailed instructions included. Additional templet nails (12 per package) are available (No. 49-54-0600).

CARRYING CASE ONLY NO. 48-55-0800

HEAVY-DUTY ROUTER BITS

SOLID CARBIDE and CARBIDE-TIPPED

Milwankee FOR SUPERIOR PRECISION CUTTING, FASTEST FEED, LONGEST LIFE

SUPERIOR MILWAUKEE SOLID CARBIDE and CARBIDE TIPPED router bits OUTLAST High Speed Steel bits. Manufactured under exacting supervision, using latest technology, each bit has been carefully evaluated for FASTEST rate of feed and LONG LIFE. Bit geometry, contours, carbide bonding produce PRECISE CUTTING ANGLES. MILWAUKEE's best bit for the professional craftsmen.

STRAIGHT BITS-TWO FLUTES

For all general purpose routing (rabbeting, grooving, dadoing, etc.). Smooth finish cuts. Use long shank bits where nature of cut requires longer shank extension.

CATALOG NUMBER IN.			CARB	DE TIPPE	D	
48-23-5055 1/4 3/4 2 1/4 48-23-5056 1/4 1 2-1/4 1/4 48-23-5057 1/4 1 2-7/8 1/4 48-23-5065 5/16 1 2-1/4 1/4 48-23-5065 5/16 1 2-1/4 1/4 48-23-5080 1/2 1 2-1/8 1/4 48-23-5085 9/16 3/4 2-1/8 1/4 48-23-5090 5/8 3/4 2 1/4 48-23-5100 3/4 3/4 2 1/4 48-23-5100 3/4 3/4 2 1/4 48-23-5140 1/2 1 2-5/8 1/2 48-23-5141 1/2 1 -1/4 2-7/8 1/2 48-23-5144 1/2 1-1/2 3-1/8 1/2 48-23-5150 3/4 1-1/4 2-7/8 1/2 48-23-5150 3/4 1-1/4 2-7/8 1/2 48-23-5155 7/8 1-1/4 2-7/8 1/2						
48-23-5056 1/4 1 2-1/4 1/4 48-23-5057 1/4 1 2-7/8 1/4 48-23-5065 5/16 1 2-1/4 1/4 48-23-5070 3/8 1 2-1/4 1/4 48-23-5080 1/2 1 2-1/8 1/4 48-23-5085 9/16 3/4 2-1/8 1/4 48-23-5090 5/8 3/4 2 1/4 48-23-5100 3/4 3/4 2 1/4 48-23-5140 1/2 1 2-5/8 1/2 48-23-5141 1/2 1-1/4 2-7/8 1/2 48-23-5144 1/2 1-1/2 3-1/8 1/2 48-23-5150 3/4 1-1/4 2-7/8 1/2 48-23-5150 3/4 1-1/4 2-7/8 1/2 48-23-5155 7/8 1-1/4 2-7/8 1/2			1/4'	SHANK		
48-23-5057 1/4 1 2-7/8 1/4 48-23-5065 5/16 1 2-1/4 1/4 48-23-5070 3/8 1 2-1/4 1/4 48-23-5080 1/2 1 2-1/8 1/4 48-23-5085 9/16 3/4 2-1/8 1/4 48-23-5090 5/8 3/4 2 1/4 48-23-5100 3/4 3/4 2 1/4 48-23-5100 3/4 3/4 2 1/4 48-23-5140 1/2 1 2-5/8 1/2 48-23-5141 1/2 1-1/4 2-7/8 1/2 48-23-5144 1/2 1-1/2 3-1/8 1/2 48-23-5150 3/4 1-1/4 2-7/8 1/2 48-23-5150 3/4 1-1/4 2-7/8 1/2 48-23-5155 7/8 1-1/4 2-7/8 1/2		48-23-5055	1/4	3/4	2	1/4
48-23-5065 5/16 1 2-1/4 1/4 48-23-5065 5/16 1 2-1/4 1/4 48-23-5070 3/8 1 2-1/4 1/4 48-23-5080 1/2 1 2-1/8 1/4 48-23-5085 9/16 3/4 2-1/8 1/4 48-23-5090 5/8 3/4 2 1/4 48-23-5100 3/4 3/4 2 1/4 48-23-5100 3/4 3/4 2 1/4 48-23-5140 1/2 1 2-5/8 1/2 48-23-5141 1/2 1-1/4 2-7/8 1/2 48-23-5144 1/2 1-1/2 3-1/8 1/2 48-23-5150 3/4 1-1/4 2-7/8 1/2 48-23-5155 7/8 1-1/4 2-7/8 1/2	. 0 .	48-23-5056	1/4	1	2-1/4	1/4
48-23-5070 3/8 1 2-1/4 1/4 48-23-5080 1/2 1 2-1/8 1/4 48-23-5085 9/16 3/4 2-1/8 1/4 48-23-5090 5/8 3/4 2 1/4 48-23-5100 3/4 3/4 2 1/4 48-23-5135 3/8 1 2-3/4 1/2 48-23-5140 1/2 1 2-5/8 1/2 48-23-5141 1/2 1-1/4 2-7/8 1/2 48-23-5142 1/2 2 4-1/4 1/2 48-23-5150 3/4 1-1/4 2-7/8 1/2 48-23-5150 3/4 1-1/4 2-7/8 1/2 48-23-5155 7/8 1-1/4 2-7/8 1/2	AUN A	48-23-5057	1/4	1	2-7/8	1/4
48-23-5100 1/2 1 2-1/8 1/4 48-23-5085 9/16 3/4 2-1/8 1/4 48-23-5090 5/8 3/4 2 1/4 48-23-5100 3/4 3/4 2 1/4 48-23-5135 3/8 1 2-3/4 1/2 48-23-5140 1/2 1 2-5/8 1/2 48-23-5141 1/2 1-1/4 2-7/8 1/2 48-23-5142 1/2 2 4-1/4 1/2 48-23-5144 1/2 1-1/2 3-1/8 1/2 48-23-5150 3/4 1-1/4 2-7/8 1/2 48-23-5155 7/8 1-1/4 2-7/8 1/2		48-23-5065	5/16	1	2-1/4	1/4
48-23-5085 9/16 3/4 2-1/8 1/4 48-23-5090 5/8 3/4 2 1/4 48-23-5100 3/4 3/4 2 1/4 48-23-5135 3/8 1 2-3/4 1/2 48-23-5140 1/2 1 2-5/8 1/2 48-23-5141 1/2 1-1/4 2-7/8 1/2 48-23-5144 1/2 1-1/2 3-1/8 1/2 48-23-5150 3/4 1-1/4 2-7/8 1/2 48-23-5155 7/8 1-1/4 2-7/8 1/2		48-23-5070	3/8	1	2-1/4	1/4
48-23-5085 9/16 3/4 2-1/8 1/4 48-23-5090 5/8 3/4 2 1/4 48-23-5100 3/4 3/4 2 1/4 48-23-5100 3/4 3/4 2 1/4 48-23-5135 3/8 1 2-3/4 1/2 48-23-5140 1/2 1 2-5/8 1/2 48-23-5141 1/2 1-1/4 2-7/8 1/2 48-23-5142 1/2 2 4-1/4 1/2 48-23-5144 1/2 1-1/2 3-1/8 1/2 48-23-5150 3/4 1-1/4 2-7/8 1/2 48-23-5155 7/8 1-1/4 2-7/8 1/2	1 /14/	48-23-5080	1/2	1	2-1/8	1/4
48-23-5100 3/4 3/4 2 1/4 48-23-5100 3/4 3/4 2 1/4 48-23-5135 3/8 1 2-3/4 1/2 48-23-5140 1/2 1 2-5/8 1/2 48-23-5141 1/2 1-1/4 2-7/8 1/2 48-23-5142 1/2 2 4-1/4 1/2 48-23-5144 1/2 1-1/2 3-1/8 1/2 48-23-5150 3/4 1-1/4 2-7/8 1/2 48-23-5155 7/8 1-1/4 2-7/8 1/2		48-23-5085	9/16	3/4	2-1/8	1/4
1/2" SHANK 48-23-5135 3/8 1 2-3/4 1/2 48-23-5140 1/2 1 2-5/8 1/2 48-23-5141 1/2 1-1/4 2-7/8 1/2 48-23-5142 1/2 2 4-1/4 1/2 48-23-5150 3/4 1-1/4 2-7/8 1/2 48-23-5155 7/8 1-1/4 2-7/8 1/2 48-23-5155 7/8 1-1/4 2-7/8 1/2 1/2 1-1/4 2-7/8 1/2 1/2 1-1/4 2-7/8 1/2 1/2 1-1/4 2-7/8 1/2 1/2 1-1/4 2-7/8 1/2 1/2 1-1/4 2-7/8 1/2 1/2 1-1/4 2-7/8 1/2 1/2 1-1/4 1/2 1-1/4 1/2	В	48-23-5090	5/8	3/4	2	1/4
48-23-5135 3/8 1 2-3/4 1/2 48-23-5140 1/2 1 2-5/8 1/2 48-23-5141 1/2 1-1/4 2-7/8 1/2 48-23-5142 1/2 2 4-1/4 1/2 48-23-5144 1/2 1-1/2 3-1/8 1/2 48-23-5150 3/4 1-1/4 2-7/8 1/2 48-23-5155 7/8 1-1/4 2-7/8 1/2		48-23-5100	3/4	3/4	2	1/4
48-23-5135 3/8 1 2-3/4 1/2 48-23-5140 1/2 1 2-5/8 1/2 48-23-5141 1/2 1-1/4 2-7/8 1/2 48-23-5142 1/2 2 4-1/4 1/2 48-23-5144 1/2 1-1/2 3-1/8 1/2 48-23-5150 3/4 1-1/4 2-7/8 1/2 48-23-5155 7/8 1-1/4 2-7/8 1/2	A		1/2'	SHANK		
48-23-5141 1/2 1-1/4 2-7/8 1/2 48-23-5142 1/2 2 4-1/4 1/2 48-23-5144 1/2 1-1/2 3-1/8 1/2 48-23-5150 3/4 1-1/4 2-7/8 1/2 48-23-5155 7/8 1-1/4 2-7/8 1/2		48-23-5135		1	2-3/4	1/2
48-23-5142 1/2 2 4·1/4 1/2 48-23-5144 1/2 1·1/2 3·1/8 1/2 48-23-5150 3/4 1·1/4 2·7/8 1/2 48-23-5155 7/8 1·1/4 2·7/8 1/2		48-23-5140	1/2	1	2-5/8	1/2
48-23-5144 1/2 1-1/2 3-1/8 1/2 48-23-5150 3/4 1-1/4 2-7/8 1/2 48-23-5155 7/8 1-1/4 2-7/8 1/2		48-23-5141	1/2	1-1/4	2-7/8	1/2
48-23-5150 3/4 1-1/4 2-7/8 1/2 48-23-5155 7/8 1-1/4 2-7/8 1/2		48-23-5142	1/2	2	4-1/4	1/2
48-23-5155 7/8 1-1/4 2-7/8 1/2		48-23-5144	1/2	1-1/2	3-1/8	1/2
그 마다 그 내는 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그		48-23-5150	3/4	1-1/4	2-7/8	1/2
48-23-5160 1 1-1/4 2-7/8 1/2		48-23-5155	7/8	1-1/4	2-7/8	1/2
		48-23-5160	1	1-1/4	2-7/8	1/2

COMBINATION PILOT PANEL BITS WITH DRILL POINTS—SINGLE FLUTE

For trimming veneer and for templet panel routing

The		CARBIDE TIPPED								
B	CATALOG NUMBER	A IN.	B IN.	D IN.	E IN.					
	48-23-6000	1/4	3/4	1/4	2-1/2					
AA-	48-23-6020	3/8	1	3/8	3					
1	48-23-6040	1/2	1-3/16	1/2	3-1/2					

STAGGER TOOTH STRAIGHT BIT

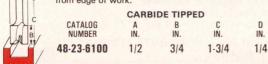
Excellent for cut outs. This design gives the bit two flute balance with single flute cutting speed.

	CARBI	DE TIPP	ED	
CATALOG	Α	В	C	D
NUMBER	IN.	IN.	IN.	IN.
48-23-5143	1/2	2	2-1/4	1/2

HINGE MORTISING BIT I

ND-

Fast cutting bit for making mortises when cut is started from edge of work. CARBIDE TIPPED



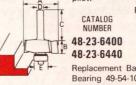
PROVINCIAL DESIGN VEINER BITS

doors and furniture. SOLID CARBIDE CATALOG D NUMBER IN. IN. 48-23-5295 1/8 1-1/2 1/4 48-23-5300 3/16 1/4 1-1/2

Most practical for veining designs on panels, cabinet

RABBETING BITS

With pilot. For making rabbeting cuts without use of router guide. Carbide tip bit has replaceable ball bearing pilot. **CARBIDE TIPPED**



RABBET DEPTH IN. IN. IN. IN IN IN. 3/8 1-1/4 1/2 1-1/8 1/4 1/2 3/8 1-1/4 1/2 1-1/2 1/2 1/2

Replacement Ball Bearing 49-54-1060...By substituting Bearing 49-54-1070, rabbet depth can be increased to 7/16"

CORE BOX BITS—TWO FLUTES

Especially effective in fluting flat surfaces (mantels and fascades). SOLID CARBIDE A IN. NUMBER IN IN IN 48-23-5600 1-1/8 1/4 1/4 318 **CARBIDE TIPPED** 1-1/8 1/4 48-23-5610 1/2 3/8 48-23-5620 5/8 417 1-1/8 1/4 48-23-5630 1/4 3/4 465 1-1/8 48-23-5640 3/4 .465 1-1/2 1/2

V-GROOVING BITS



Excellent for lettering and sign work.

	SULID	CARBIL)E	
CATALOG	A	В	C	D
NUMBER	IN.	IN.	IN.	IN.
48-23-8200	3/16	1/4	1-1/2	1/4
	CARBI	DE TIPPE	D	
48-23-8210	1/2	3/8	1-3/4	1/4
48-23-8230	1/2	1/2	1-3/4	1/4

45° CHAMFERING BITS-TWO FLUTES I



With pilot. For decorative edging and making concealed joints. Carbide tip bit has replaceable ball bearing pilot.

	CARB	IDE TIPPE	D	
CATALOG	A	C	D	E
NUMBER	IN.	IN.	IN.	IN.
48-23-6200	1/2	1-5/8	1/4	3/8
48-23-6240	1/2	2	1/2	3/8
Replaceable Be	aring 49-	54-1090.		

CORNER ROUNDING BITS II

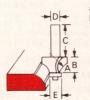


With pilot. For decorative edging and for drop leaf table joints. Carbide tip bits have replaceable ball bearing pilot.

	A	DE TIPPE	U	
CATALOG NUMBER	IN. RADIUS	C IN.	D IN.	E IN.
48-23-5410	1/4	1-1/8	1/4	1/2
48-23-5420	5/16	1-1/4	1/4	1/2
48-23-5430	3/8	1-1/8	1/4	1/2

Replaceable Bearing 49-54-1060...Converts to Beading Bit by substituting Bearing 49-54-1070.

BEADING BITS-TWO FLUTES



With pilot. For decorative furniture. Pilot guides router along edge of work. Carbide tip bits have replaceable ball bearing pilot. CARBIDE TIPPED

	Α				
CATALOG NUMBER	IN. RADIUS	B IN.	C IN.	D IN.	E IN.
48-23-5510	3/16	1/2	1-1/4	1/4	3/8
48-23-5520	1/4	1/2	1-1/8	1/4	3/8
48-23-5525	5/16	1/2	1-1/8	1/4	3/8
48-23-5530	3/8	5/8	1-1/8	1/4	3/8

Replaceable Bearing 49-54-1070...Convert to Corner Rounding Bit by substituting Bearing 49-54-1060.

HEAVY-DUTY ROUTER BITS

Milwankee **COVE BITS-TWO FLUTES**

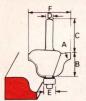
With pilot. For decorative edging and for drop leaf joints. CARRIDE TIPPED



		DE HIFFE	-0		
CATALOG NUMBER	IN. RADIUS	B IN.	C IN.	D IN.	E IN.
48-23-5700	1/4	33/64	1-1/8	1/4	3/8
48-23-5710	3/8	33/64	1-1/8	1/4	3/8
48-23-5720*	1/2	23/32	1-1/8	1/4	3/8

* Not recommended for use with MILWAUKEE routers. Replaceable Bearing 49-54-1090.

ROMAN OGEE BITS

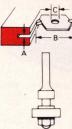


With pilot. For decorative furniture. Pilot guides router along edge of work.

	CAR	BIDE T	IPPED			
CATALOG	Α	В	C	D	E	F
NUMBER	IN.	IN.	IN.	IN.	IN.	IN.
48-23-5800	5/32	5/8	1-1/8	1/4	3/8	1
48-23-5810★	1/4	.787	1-1/8	1/4	3/8	1-3/8

* Not recommended for use with MILWAUKEE routers. Replaceable Bearing 49-54-1090.

TWO WING SLOTTING CUTTERS

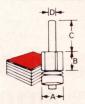


Used for slotting plywoods and core boards for "T" CARBIDE TIPPED

CATALOG	A	В	C
NUMBER	IN.	IN.	IN.
48-23-8000	1/16	1-7/8	5/16
48-23-8005	5/64	1-7/8	5/16
48-23-8020	3/32	1-7/8	5/16
48-23-8030	1/4	1-7/8	5/16

NOTE: USE ABOVE WITH SLOTTING CUTTER ARBOR NO. 48-23-8050 Includes 1/4" shank Slotting Cutting Arbor, Nut, Washer and Bearing. Replacement Arbor Bearing No. 49-54-1080.

HELIX LAMINATE TRIMMERS



Designed to force the laminate against backing for chip free cuts - eliminates surface flake out.

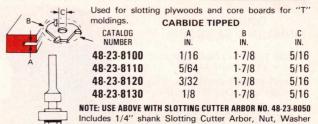
	CARBII	DE TIP	PED		
CATALOG NUMBER	TYPE OF CUT	A IN.	B IN.	C IN.	D
48-23-6700	Flush	3/4	5/8	1-1/8	IN. 1/4
48-23-6710	15°	3/4	3/8	1-1/8	1/4
Renlaceable Re	aring 49-54	-1050			

FLUSH TRIM BIT

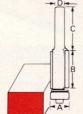


With pilot, Produces square, flush edge on plastic laminates. SOLID CARBIDE NUMBER IN IN IN 48-23-5235 1/4 1-1/2 1/4

THREE WING SLOTTING CUTTERS



FLUSH TRIM BITS-TWO FLUTES-BALL BEARING



	CARBID	E TIPPED		
CATALOG NUMBER	A IN.	B IN.	C IN.	D IN.
48-23-6500	3/8	1/2	1-3/8	1/4
48-23-6505	3/8	1	1-3/8	1/4
48-23-6520	1/2	1	1-3/8	1/4
48-23-6540	1/2	1	1-3/4	1/2

and Bearing. Replacement Arbor Bearing No. 49-54-1080.

Replaceable Bearing 49-54-1070 for 48-23-6500 and 48-23-6505. Replaceable Bearing 49-54-1060 for 48-23-6520 and 48-23-6540.

COMBINATION STRAIGHT AND I 23° BEVEL TRIM BIT



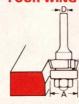
Combines 23° bevel trim and flush trim cuts in one bit. **CARBIDE TIPPED** CATALOG DEGREES NUMBER IN. 48-23-6715 23 1/4

7° BEVEL TRIMMER I



	SOLID CA	ARBIDE	
CATALOG	Α	C	D
NUMBER	DEGREES	IN.	IN.
48-23-5195	7	1-1/2	1/4

FOUR WING LAMINATE CUTTERS



CARBIDE TIPPED CATALOG TYPE OF NUMBER CUT IN IN IN nº 48-23-6600 .865 1/4 1/4 48-23-6610 15° .865 1/4 1/4 Replaceable Bearing 49-54-1080.

HEAVY-DUTY FORSTNER

Precision made of high carbon tool steel and are ideal for drilling into wood at any angle to produce smooth, splinter-free, flat bottom holes. Excellent for doweling, creating pocket holes, boring any part of a circle, and making clean cuts in thin material and veneers. All bits have 3/8" shanks.

FORSTNER BIT SET NO. 48-14-0007

> 16 PIECE FORSTNER BIT SET NO. 48-14-0016

Bits are available individually or in 7 piece or 16 piece sets. The 7 piece set includes the bulleted numbers shown below. The 16 piece set includes all of the

NUMBER NUMBER	DIAMETER	NUMBER	DIAMETER
48-14-0250 ●	1/4" *	48-14-1250	1-1/4"
48-14-0375 ●	3/8"	48-14-1375	1-3/8"
48-14-0500	1/2"	48-14-1500	1-1/2"
48-14-0625 ●	5/8"	48-14-1625	1-5/8"
48-14-0750	3/4"	48-14-1750	1-3/4"
48-14-0875	7/8"	48-14-1875	1-7/8"
48-14-1000	1"	48-14-2000	2"
48-14-1125	1-1/8"	48-14-2125	2-1/8"

*1/4" bit is 3" long. All others are 3-1/2" long.



HEAVY-DUTY ORBITAL SANDERS

FLUSH SANDING ON 3 SIDES FOR ALL MODELS

ORBITAL FINISHING SANDERS

- USE 1/4 OF STANDARD 9" × 11" SANDPAPER
- **FAST FINISH SANDING** 13,000 1/16" ORBITS/MIN.
- DOUBLE INSULATED
- **BALL BEARING** CONSTRUCTION
- **DESIGNED FOR ONE** HAND OPERATION
- ROCKER TYPE ON/OFF SWITCH
- FAST SANDPAPER CHANGE WITH LEVER TYPE CLAMPS
- LONG 8' 2 WIRE RUBBER CORD FOR OPERATOR CONVENIENCE
- **BUILT FOR CONTINUOUS** PRODUCTION USE



6017 DUST **OLLECTOR**



CLEANUP, REMOVAL OF CORNERS EASILY SANDED

STANDARD EQUIPMENT WITH NO. 6017 SANDER

DUST COLLECTOR BAG

NO. 48-09-0310

Keeps work area clean with constant dust pick up. Zippered bag empties easily.

PUNCH PLATE

NO. 49-80-2050

Punctures attached sandpaper allowing for dust removal.



SPECIFICATIONS

CATALOG NUMBER	VOLTS AC	AMPS	DESCRIPTION	ORBITS PER MINUTE (NO LOAD)	DIAMETER OF ORBIT (INCHES)	PAD SIZE	LENGTH (INCHES)	WIDTH (INCHES)	HEIGHT (INCHES)	NET WGT. LBS.	SHP. WGT. LBS.
6016	115	1.8	Without Dust Collector	13,000	1/16	4-3/8" x 4"	4-1/2	4-3/8	5	2.4	3.25
6017	115	1.8	With Dust Collector	13,000	1/16	4-3/8" x 4"	4-1/2	4-3/8	5-3/16	2.8	3.65

STANDARD EQUIPMENT: NO. 6016-Orbital Finishing Sander.

NO. 6017-Orbital Finishing Sander, Dust Collector, No. 48-09-0310 and Punch Plate, No. 49-80-2050



USE 1/3 OF STANDARD 9"x11" SANDPAPER

USE 1/2 OF STANDARD 6010 9"x11" SANDPAPER

EXCLUSIVE DUST PICK UP KIT AVAILABLE FOR MODEL 6010

- 12,000 ORBITS/MIN.-FOR FAST REMOVAL -BLEMISH FREE SURFACES
- FOR CONTINUOUS PRODUCTION USE
- **DESIGNED FOR 1 OR 2 HAND CONTROL**
- THUMB SLIDE SWITCH
- STRONG, DURABLE GLASS REINFORCED NYLON HOUSING AND HANDLES
- SPECIALLY ENGINEERED AND PRECISION MACHINED FOR LOW VIBRATION
- **AMPLE RESERVE POWER** FOR HEAVY SANDING
- DOUBLE INSULATED

NO. 49-22-0051 for No. 6008 Sander

NO. 49-22-0052 for No. 6010 Sander

Pads which accept adhesive-backed sandpaper are standard equipment. Pads are compressed foam permanently bonded to knitted fabric cover providing maximum surface contact. Your choice to use standard paper with pad clamps or self stick paper.

SPECIFICATIONS

CATALOG NUMBER	VOLTS AC-DC	AMPS	DESCRIPTION	PER MINUTE NO LOAD	DIAMETER OF ORBIT (INCHES)	LENGTH (INCHES)	WIDTH (INCHES)	HEIGHT (INCHES)	NET WGT. LBS.	SHP. WGT LBS.
6008	120	5	W/Self Stick Pad 3-5/8"x7-3/8"	12,000	1/8	10-1/2	3-5/8	7	6	7
6010	120	5	W/Self Stick Pad 4-1/2"x9-1/4"	12,000	1/8	11-1/2	4-1/2	7	7	8



Available for both models NO. 48-55-0740



Milwankee HEAVY-DUTY 3" and 4" HIGH PERFORMANCE BELT SANDERS

POWERFUL 10 AMP BELT SANDERS FOR FAST MATERIAL REMOVAL WITH OR WITHOUT BUILT IN DUST COLLECTION VACUUM SYSTEM

DOUBLE INSULATED

5920 **BUILT FOR** 3" CONTINUOUS PRODUCTION USE

5920 3" × 24" WITHOUT DUST COLLECTOR 5925 3" × 24" WITH DUST COLLECTOR

SPECIFICATIONS

CATALOG NUMBER	BELT SPEED SFPM	BELT SIZE	VOLTS AC/DC	AMPS	NET WGT. LBS.	SHP. WGT. LBS.
5920	1400	3"	120	10	13-1/2	16-1/2
5925	1400	3"	120	10	13-3/4	16-3/4
STANDARD	EQUIPMENT:	(1) 80 grit	sanding belt.			

5931 4"

SWITCH With lock-on control.

5931 4" × 24" WITHOUT DUST COLLECTOR 5936 4" × 24" WITH DUST COLLECTOR

SPECIFICATIONS

CATALOG NUMBER	BELT SPEED SFPM	BELT SIZE	VOLTS AC/DC	AMPS	NET WGT. LBS.	SHP. WGT. LBS.
5931	1400	4"	120	10	14-1/4	17-1/4
5936	1400	4"	120	10	14-1/2	17-1/2
STANDARD	EQUIPMENT:	(1) 80 grit	sanding belt.			

3" LARGE DUST COLLECTOR BAG

For quick belt change. For constant, powerful dust pick up. Out of way - empties easily.

BELT RELEASE LEVER

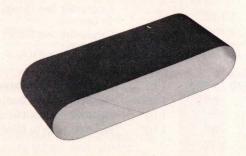
- WEIGHT IS CENTERED DIRECTLY OVER BASE FOR CONTROL/BALANCE
- RUBBER COATED REAR PULLEY FOR FULL TRACTION UNDER HEAVY PRESSURE
- INDEPENDENT VENTILATION AND EXHAUST FAN
- IMPACT RESISTANT GLASS REINFORCED NYLON CONSTRUCTION
- **DOUBLE INSULATED**

5925



- IMPROVED BELT/TRACKING **ADJUSTMENT**
- IMPROVED TRACKING
- IMPROVED BELT RELEASE
- IMPROVED ROLLER DESIGN

OPEN COAT SANDING BELTS FOR BELT SANDERS



SIZE	BELTS PER PKG.	GRIT	TYPE	USE
3×24 4×24	10 10	36 36	COARSE	For fast sanding of wood and non-ferrous material.
3×24 4×24	10 10	60 60	MEDIUM	For general smoothness of wood or metal.
3×24 4×24	10 10	80 80	MEDIUM	For general smoothness of wood or metal.
3×24 4×24	10 10	100 100	FINE	For finer smoothness of wood or metal.
3×24 4×24	10 10	120 120	FINE	For finish work on wood or metal.
	3×24 4×24 3×24 4×24 3×24 4×24 3×24 4×24 3×24	SIZE PER PKG. 3×24 10 4×24 10 3×24 10 4×24 10 3×24 10 4×24 10 3×24 10 4×24 10 3×24 10 4×24 10 3×24 10 3×24 10	SIZE PER PKG. GRIT 3×24 10 36 4×24 10 36 3×24 10 60 4×24 10 60 3×24 10 80 4×24 10 80 3×24 10 100 4×24 10 100 3×24 10 100 3×24 10 120	SIZE PER PKG. GRIT TYPE 3×24 10 36 COARSE 4×24 10 36 COARSE 3×24 10 60 MEDIUM 3×24 10 80 MEDIUM 3×24 10 80 MEDIUM 3×24 10 100 FINE 3×24 10 100 FINE 3×24 10 120 FINE

Millitulkee BALANCE

HEAVY-DUTY POLISHERS

HEAVY-DUTY INDUSTRIAL CONSTRUCTION LIFE ELECTRONICS ON MODELS 5460, 5540

D ROLLER BEARINGS

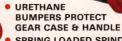
BALANCED POWERFUL 10 AND 11 AMPS HELICAL GEARING ALL BALL AND ROLLER BEARINGS

NEW 7"/9" **5460** 0-1750 RPM
NEW 7" **5540** 0-2800 RPM

7"/9" **5455** 1750 RPM 7" **5535** 2800 RPM



Exclusive
MILWAUKEE
Electronic
Speed Control in
Powerful 10 amp Polishers
ideal for clearcoat finishes.



- SPRING LOADED SPINDLE LOCK
- ALUMINUM GEAR CASE
- SELF-STOPPING LONG LIFE BRUSH SYSTEM

MODEL 5460 AND 5540 INCLUDE QUIK-LOK CORD SET

- QUICK DETACHMENT FROM TOOL FOR TANGLE-FREE CARRYING AND STORAGE
- 8' STANDARD, 25' AVAILABLE
 8' AND 25' QUIK-LOK CORD
 SETS WITH TWIST-LOCK PLUGS
 AVAILABLE. SEE PAGE 11
 FOR FULL DESCRIPTION.



SPECIFICATIONS

CATALOG NUMBER	PAD DIAMETER	VOLTS	AMPS	(NO LOAD) RPM	LENGTH +	NET WEIGHT	SHIPPING WEIGHT
5455	7"/9"	120 AC/DC	11	1750	16-1/2	8-3/4 lbs.	11.09 lbs.
5460	7"/9"	120 AC	10	0-1750	16-1/2	8-3/4 lbs.	12.04 lbs.
5535	7"	120 AC/DC	11	2800	16-1/2	8-3/4 lbs.	11.09 lbs.
5540	7"	120 AC	10	0-2800	16-1/2	8-3/4 lbs.	12.04 lbs.

NO. 5455, 5460, 7"/9" DIA. Lightweight polisher, 1750 RPM (5460 0-1750 RPM) used with standard liquid polishes. Standard equipment includes 7" rubber backing pad and disc nut.

NO. 5535, 5540, 7" DIA. Lightweight polisher, 2800 RPM (5540 0-2800 RPM) for exclusive use with high speed liquid machine polishes. Standard equipment includes 7" rubber backing pad and disc nut.

+ Over-all length of tool only—not including pad.

MILWAUKEE HEAVY-DUTY POLISHER ACCESSORIES

FAST, CONVENIENT HOOK AND LOOP ATTACHMENT

NO DISC NUT NECESSARY • CHANGE PADS IN SECONDS
FOAM PADS ARE IDEAL FOR USE WITH 5460 AND 5540 SPEED CONTROL POLISHERS ON LOW
SPEED FOR CLEARCOAT FINISHES OF TODAYS NEWER CARS



HOOK AND LOOP BACKING PAD NO. 49-36-2150 (Includes Centering Tool)



CENTERING TOOL NO. 49-67-0130 (When Purchased Separately)





WOOL BLEND

NUMBER	DESCRIPTION	DIAMETER	OF PILE	APPLICATION
	FOAM PADS ARE DESIGNED			
	RUN COOLER AND ARE I			

49-36-0650 FOAM PAD 8" 2" High Gloss Finish On Clearcoat
49-36-1550 FOAM PAD 8" 2" Compounding Deep Cleaning
On Clearcoat

WOOL BLEND PADS RUN COOLER THAN 100% WOOL AND ADD A MARGIN OF SAFETY WHEN USED ON CLEARCOAT FINISHES.

49-36-0600WOOL BLEND PAD7-1/2"1-1/2"High Gloss Finish On Clearcoat
Compounding Deep Cleaning On
Non-Clear or Clearcoat49-36-1500WOOL BLEND PAD7-1/2"1-1/2"Non-Clear or Clearcoat



MOLDED RUBBER BACKING PAD 7" DIAMETER NO. 49-36-2500

8-1/2" DIAMETER NO. 49-36-2200

DISC NUT

NO. 49-40-0390 (Included as Standard Equipment)

NYLON WASHER NO. 45-88-8465

for Easier Removal. (Included as Standard Equipment)



WOOL PAD

BLENDED WOOL PAD

BLENDED WOOL BONNET

NUMBER	DESCRIPTION	DIAMETER	OF PILE	APPLICATION
	100% WO RECOMMENDED FOR C	OLEN YARN P		AND POLISHING
49-36-1450	CURVED WOOL PAD	7-1/2"	1-1/2"	Compounding Deep Cleaning On Clearcoat
49-36-1455	WOOL PAD	7-1/2"	2"*	Compounding Deep Cleaning On Clearcoat
49-36-1600	WOOL PAD	9"	1-1/2"	Compounding Deep Cleaning On Clearcoat

BLENDED WOOL PADS AND BONNETS RECOMMENDED FOR HIGH GLOSS FINISHING

49-36-0500	CORVED BLENDED MOOF LAD	1-1/2	1-1/2	High Gloss Finish on Clearcoat
49-36-0700	BLENDED WOOL PAD	9"	1-1/2"	High Gloss Finish On Clearcoat
48-48-0500	BLENDED WOOL BONNET	7"	1-1/2"	High Gloss Finish On Clearcoat
48-48-1000	BLENDED WOOL BONNET	9"	1-1/2"	High Gloss Finish On Clearcoat

FAST, SWIRL-FREE, PROFESSIONAL FINISHED

- **USES PRESSURE SENSITIVE ADHESIVE (PSA)** SANDPAPER DISCS
- 10,000 ORBITS PER MINUTE FOR FAST STOCK REMOVAL
- **HEAVY-DUTY 5.5 AMP MOTOR**
- ALL BALL AND ROLLER BEARING CONSTRUCTION
- PADDLE SWITCH FOR GREATER OPERATOR COMFORT AND CONTROL
- SIDE HANDLE CAN BE SWITCHED TO EITHER SIDE FOR RIGHT OR LEFT HAND OPERATION
- DOUBLE INSULATED



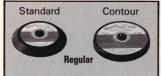
SPECIFICATIONS

CATALOG NUMBER	VOLTS AC-DC	AMPS	ORBITS PER MINUTE (NO LOAD)	LENGTH (INS.)	WIDTH (INS.)	HEIGHT (INS.)	NET WGT. (LBS.)	NET WGT. (LBS.)
6125	120	5.5	10,000	12.0	5	6	5	6
6126	120	5.5	10,000	12.5	6	6	5	6
6127 KIT	120	5.5	10,000	12.0	5	6	5.5	15.5

STANDARD EQUIPMENT: 6125, 6126-Both models include three Sandpaper Discs (one each of 80, 120 and 180 grit) and 3/4" Wrench No. 49-96-4078.

STANDARD EQUIPMENT: 6127-Sandpaper Assortment Pack No. 48-80-1230, Side Handle No. 49-15-0251, Steel Hose Connector No. 49-90-0195, 3/4" Wrench No. 49-96-4078 and Steel Carrying Case No. 48-55-0590. Replacement 6' Vacuum Hose Assembly No. 48-09-1020.

RANDOM ORBIT SANDER PADS



Standard Contour With Holes for vacuum-assisted pick up

Standard Pad-Good for general purpose flat sanding applications.

Contour Pad-Specialty type pad that is softer than the standard pad and used for lighter pressure applications such as contour surfaces.

REGULAR WITH HOLES DESCRIPTION 49-36-7030 49-36-7050 5" Standard Pad 49-36-7035 49-36-7055 5" Contour Pad 49-36-7040 49-36-7060 6" Standard Pad 49-36-7045 49-36-7065 6" Contour Pad

PSA SANDPAPER DISC SELECTOR CHART

	REGU	LAR			WITH	HOLES						
CAT. NO.	QTY.	CAT. NO.	QTY.	CAT. NO.	QTY.	CAT. NO.	QTY.	DIA.	GRIT	WT.	MATERIAL	APPLICATION
48-80-1000	10	48-80-1035	50	48-80-1200	10	48-80-1235	50	5"	80	D	Aluminum Oxide	Rough sanding and stripping of painted and rusted surfaces.
48-80-1005	10	48-80-1040	50	48-80-1205	10	48-80-1240	50	5"	100	A	Silicon Carbide	Intermediate sanding and minor
48-80-1010	10	48-80-1045	50	48-80-1210	10	48-80-1245	50	5"	120	Α	Silicon Carbide	surface imperfections.
48-80-1015	10	48-80-1050	50	48-80-1215	10	48-80-1250	50	5"	150	A	Silicon Carbide	Fine sanding prior to staining,
48-80-1020	10	48-80-1055	50	48-80-1220	10	48-80-1255	50	5"	180	Α	Silicon Carbide	
48-80-1025	10	48-80-1060	50	48-80-1225	10	48-80-1260	50	5"	220	Α	Silicon Carbide	priming or sealing.
48-80-1030	12	allow openics of	-	48-80-1230	12		-	5"		-	-41	Assortment Pack containing two each of the above 5" discs.
48-80-1100	10	48-80-1135	50	48-80-1300	10	48-80-1335	50	6"	80	D	Aluminum Oxide	Rough sanding and stripping of painted and rusted surfaces.
48-80-1105	10	48-80-1140	50	48-80-1305	10	48-80-1340	50	6"	100	Α	Silicon Carbide	Intermediate sanding and minor
48-80-1110	10	48-80-1145	50	48-80-1310	10	48-80-1345	50	6"	120	A	Silicon Carbide	surface imperfections.
48-80-1115	10	48-80-1150	50	48-80-1315	10	48-80-1350	50	6"	150	Α	Silicon Carbide	Fire conding using to etaining
48-80-1120	10	48-80-1155	50	48-80-1320	10	48-80-1355	50	6"	180	Α	Silicon Carbide	Fine sanding prior to staining,
48-80-1125	10	48-80-1160	50	48-80-1325	10	48-80-1360	50	6"	220	Α	Silicon Carbide	priming or sealing.
48-80-1130	12	-	- '	48-80-1330	12	es a es	73 <u>-</u>	6"	-			Assortment Pack containing two each of the above 6" discs.

RANDOM ORBIT SANDER CONVERSION KITS Convert your MILWAUKEE 4-1/2" or 5" Sander/Grinder to a Random Orbit Sander

REGULAR kits fit the following and other competitive 4-1/2" and 5" Sander/Grinders:

AEG WS 601 B & D 2750 MAKITA 9503BHZ METABO AG 650 SL RYOBI G-1155C

BOSCH 1347A HILTI HG450 **PORTER CABLE 7645**



CAT. NO.	CAT. NO.	DESCRIPTION	CONVERTS/MODELS	то
49-36-7000	49-36-7020*	5" Kit with 5/8"-11 Thread	6140, 6141, 6142	5" ROS (*w/Dust Pick Up)
49-36-7005		5" Kit with 1/2"-13 Thread	6145	5" Random Orbit Sander
49-36-7010	49-36-7025*	6" Kit with 5/8"-11 Thread	6140, 6141, 6142	6" ROS (*w/Dust Pick Up)
49-36-7015		6" Kit with 1/2"-13 Thread	6145	6" Random Orbit Sander

Milwankee

HEAVY-DUTY 4-1/2"-5" SANDER/GRINDERS

POWERFUL LIGHTWEIGHT COMPACT 5.5 AMP 10,000 RPM

REVERSIBLE SIDE HANDLE

For right or left handed operation

DOUBLE INSULATED ALL BALL AND ROLLER BEARINGS ALUMINUM GEAR HOUSING MADE IN U.S.A.

PADDLE SWITCH Conveniently mounted for one hand operation

GUARD SINGLE SCREW MOUNT

■ SANDER/GRINDER MAY BE CONVERTED TO A SANDER BY USING SANDER ACCESSORIES SHOWN ON PAGE 87



6140 5/8"-11 SPINDLE SIZE

6145 1/2"-13 SPINDLE SIZE

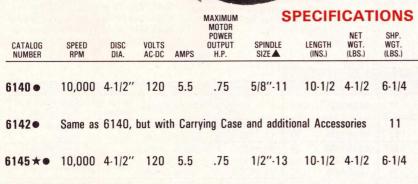


4-1/2" Dia. Model:

(KIT) 6142 5/8"-11 SPINDLE SIZE

KIT INCLUDES: One each 4-1/2" Sander/Grinder No. 6140, Grinding Wheel Guard Assembly No. 49-12-0320, Aluminum Oxide Grinding Wheel No. 49-94-3300, 2-3/4" Dia. Carbon Knot Wire Cup Brush No. 48-52-5040, Sanding Kit No. 49-36-3455, 3/4" Open End Wrench No. 49-96-4078, Spanner Wrench No. 49-96-7201, Flange No. 49-05-0040 with Flange Nut No. 49-05-0051, Side Handle No. 49-15-0251 and Carrying Case No. 48-55-0886.

5" Dia. Model: 6141 5/8"-11 SPINDLE SIZE



No. 6140: Grinding wheel guard assembly, No. 49-12-0320; one 4-1/2" \times 1/4" \times 7/8" 24 grit aluminum oxide grinding wheel, No. 49-94-3300; 3/4" open end wrench, No. 49-96-4078 with spanner wrench, No. 49-96-7201; flange, No. 49-05-0040 with flange nut, No. 49-05-0051 and side handle, No. 49-15-0251.

STANDARD EQUIPMENT

- No. 6142: Same as for Model 6140 and also includes carrying case, No. 48-55-0886; knot wire cup brush, No. 48-52-5040 and backing pad assembly, No. 49-36-3455.
- No. 6145: Grinding wheel guard assembly, No. 49-12-0320; one 4-1/2" \times 1/4" \times 7/8" 24 grit aluminum oxide grinding wheel, No. 49-94-3300; 3/4" open end wrench, No. 49-96-4078 with spanner wrench, No. 49-96-7201; flange No. 49-05-0040 with flange nut, No. 49-05-0050 and side handle, No. 49-15-0251.
- No. 6141: Grinding wheel guard assembly, No. 49-12-0330; one $5^{\prime\prime}\times1/4^{\prime\prime}\times7/8^{\prime\prime}$ 24 grit aluminum oxide grinding wheel, No. 49-94-3340; 3/4" open end wrench, No. 49-96-4078 with spanner wrench, No. 49-96-7201; flange, No. 49-05-0070 with flange nut, No. 49-05-0051 and side handle No. 49-15-0251.
- * Available in 240 Volts AC-DC. Add -2 after Catalog Number when ordering. See price sheet. Not available in Canada.

.75

When used as a grinder, guard must be used for O.S.H.A. compliance.

5"

▲ Flange designed to accommodate 7/8" hub depressed center wheel.

4-1/2" AND 5" SANDER/GRINDER ACCESSORIES



10,000

6141

STEEL CARRYING NO. 48-55-0885

120 5.5



5/8"-11

10-1/2

PROTECTIVE CARRYING CASE...HIGH **IMPACT POLYETHYLENE**

7

NO. 48-55-0886

Same as furnished with 6142 KIT. May be used with either 4-1/2" or 5" Sander/Grinders.



TYPE "O" GREASE

NO. 49-08-4200 1 LB. CAN

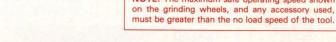


3/4" WRENCH NO. 49-96-4078

FOR COMPLETE LINE OF 4-1/2" AND 5" SANDER/GRINDER ACCESSORIES, SEE PAGES 87, 88

Milwankee

HEAVY-DUTY 4-1/2"-5" SANDER/GRINDER **ACCESSORIES**



NOTE: The maximum safe operating speed shown



GRINDING WHEELS

USE GUARD NO. 49-12-0320 for 4-1/2" Grinder NO. 49-12-0330 for 5" Grinder

USE FLANGE NO. 49-05-0040 for 4-1/2" Grinder NO. 49-05-0070 for 5" Grinder

REINFORCED TYPE 27 DEPRESSED CENTER GRINDING WHEELS

ALUMINUM OXIDE DISCS FOR METAL

7/8" ARBOR HOLE 24 GRIT

NO. 49-94-3300	DOV	4-1/2"×1/4"	Max. Speed 12,500 RPM	For Grinding Applications
NO. 49-94-3310	BOX	4-1/2"×1/8"	Max. Speed 12,500 RPM	For Cut-Off Applications Only
NO. 49-94-3340	OF 10	5"×1/4"	Max. Speed 12,000 RPM	For Grinding Applications
NO. 49-94-3350		5"×1/8"	Max. Speed 12,000 RPM	For Cut-Off Applications Only

SILICON CARBIDE DISCS FOR STONE OR CONCRETE

7/8" ARBOR HOLE 24 GRIT

NO. 49-94-3320 NO. 49-94-3330 NO. 49-94-3360	BOX OF 10	4-1/2" × 1/4" 4-1/2" × 1/8" 5" × 1/4"	Max. Speed 12,500 RPM Max. Speed 12,500 RPM Max. Speed 12,000 RPM	For Grinding Applications For Cut-Off Applications Only For Grinding Applications
NO. 49-94-3370	01 10	5"×1/8"	Max. Speed 12,000 RPM	For Cut-Off Applications Only



COTTON REINFORCED TYPE 27 DEPRESSED CENTER GRINDING WHEELS

FOR BLENDING AND FINISHING ON NON-FERROUS ALLOYS AND STAINLESS STEEL

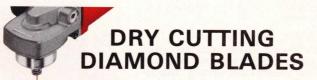
SMOOTH HANDLING...soft cushion-like action reduces any tendency towards vibration. NON-LOADING...cotton reinforced wheels do not load up when working on the softer metals or alloys. LONG LIFE...for long life on original job plus the fact that cotton reinforced wheels can be dressed down and utilized on other operations. Wide range of applications...one of the most versatile of all abrasive tools.

7/8" ARBOR HOLE 24 GRIT

F 10	4-1/2" × 1/4" 4-1/2" × 1/8"	Max. Speed 12,000 RPM Max. Speed 12,000 RPM	For Blending and Finishing
The second second			



NO. 49-94-3400 NO. 49-94-3410 0





USE GUARD NO. 49-12-0360 for 4-1/2"-5" Grinders

NO. 49-05-0080 for 4-1/2"-5" Grinders Supplied with 4" and 4-1/2" Diamond Blades

7/8" ARBOR HOLE; 20mm, 5/8" **Bushings Supplied**

NO. 49-93-8005 4" DIA. CONTINUOUS RIM MAX. SPEED 12,000 RPM



NO. 49-93-8010 4-1/2" DIA. CONTINUOUS RIM MAX. SPEED 12,000 RPM



NO. 49-93-8015 4-1/2" DIA. x 1/4" SEGMENTED MAX. SPEED 12,000 RPM



USE FLANGE NUT NO. 49-05-0050 For 1/2"-13 Spindles USE FLANGE NUT NO. 49-05-0051 For 5/8"-11 Spindles

HEAVY-DUTY /2"-5" SANDER/GRINDER ACCESSORIES

BACKING PAD ASSEMBLIES

Maximum speed 13,000 RPM. Includes backing pad, disc nut, and one each of 36 and 60 grit sanding discs.

5/8"-11 THREAD

4-1/2" ASSEMBLY NO. 49-36-3455 For use with 6140 and 6142 Kit.

5" ASSEMBLY NO. 49-36-3465 For use with 6141

DISC NUT ONLY NO. 49-40-0371 As furnished with Backing Pad Assembly. For use with 6140, 6141 and

1/2"-13 THREAD

4-1/2" ASSEMBLY NO. 49-36-3450 For use with 6145 and Previous Model 6147 Kit.

5" ASSEMBLY NO. 49-36-3460 For use with Previous Model 6146.

DISC NUT ONLY NO. 49-40-0370 As furnished with Backing Pad Assembly. For use with 6145 or Previous Models 6146 and 6147 Kit.





ABRASIVE SANDING DISCS



5"

ic Sanding Discs

ALUMINUM ZIRCONIA BI-CUT SANDING DISCS

A high quality disc ideal for paint removal on cars, boats, fiberglass, etc. Unique grit pattern is arranged in clusters for faster stock removal and cleaning runs cooler and clogs less than standard Aluminum

DIA.	CAT. NO.	GRIT	QTY.
4-1/2"	48-80-0750	24	5
4-1/2"	48-80-0760	36	5
5"	48-80-0650	24	5
5"	48-80-0660	36	5

CERAMIC SANDING DISCS

MILWAUKEE's highest quality, premium grade Ceramic Discs last up to 3 times longer than Aluminum Oxide Discs. For general metal working. Ideal for tough applications. Greatly improved surface finish with reduced loading.

DIA.	CAT. NO.	GRIT	QTY.
4-1/2"	48-80-0770	24	5
4-1/2"	48-80-0780	36	5
4-1/2"	48-80-0790	50	5
4-1/2"	48-80-0800	60	5
4-1/2"	48-80-0810	80	5
5"	48-80-0670	24	5 5
5"	48-80-0680	36	5
5"	48-80-0690	50	5
5"	48-80-0700	60	5
5"	48-80-0710	80	5

ALUMINUM OXIDE SANDING DISCS

Fast cutting general purpose discs for most metal working applications. Tough aluminum oxide grit, resin bonded to fiber backing.

4-1/2	" DIA.		5"	DIA.	
NO. 48-80-0500 No. 48-80-0510	BOX	24 GRIT 36 GRIT	NO. 48-80-0600 NO. 48-80-0610	BOX	24 GRIT 36 GRIT
NO. 48-80-0520	OF	60 GRIT	NO. 48-80-0620	OF	60 GRIT
NO. 48-80-0530	10	80 GRIT	NO. 48-80-0630	10	80 GRIT

NOTE: The maximum safe operating speed shown on the grinding wheels, and any accessory used, must be greater than the no load speed of the tool.

WIRE WHEELS



USE GUARD for 4-1/2" Grinder NO. 49-12-0320 for 5" Grinder NO. 49-12-0330

4" DIA. STAINLESS STEEL STRINGER BEAD WIRE WHEEL

MAX. SPEED 12,000 RPM .020 WIRE 5/8"-11 THREAD NO. 48-52-5000 1/2"-13 THREAD NO. 48-52-1225

4" DIA. CARBON

FULL CABLE TWIST KNOT WIRE WHEEL MAX. SPEED 12,000 RPM .020 WIRE 5/8"-11 THREAD NO. 48-52-5030 1/2"-13 THREAD NO. 48-52-1250

4" DIA. CARBON

STRINGER BEAD WIRE WHEEL MAX. SPEED 12,000 RPM .020 WIRE 5/8"-11 THREAD NO. 48-52-5010

1/2"-13 THREAD NO. 48-52-2220

4" DIA. STAINLESS STEEL **FULL CABLE TWIST KNOT WIRE WHEEL**

MAX. SPEED 12,000 RPM .020 WIRE 5/8"-11 THREAD NO. 48-52-5020

1/2"-13 THREAD NO. 48-52-2225

4" DIA. CARBON RADIAL CRIMPED WIRE WHEEL BRUSH MAX. SPEED 12,000 RPM .014 WIRE

5/8"-11 THREAD NO. 48-52-5070 1/2"-13 THREAD NO. 48-52-1275



WIRE CUP BRUSHES



USE GUARD for 4-1/2" Grinder NO. 49-12-0320 for 5" Grinder NO. 49-12-0330,

2-3/4" DIA. CARBON

KNOT WIRE CUP BRUSH MAX. SPEED 12,000 RPM .020 WIRE 5/8"-11 THREAD NO. 48-52-5040 1/2"-13 THREAD NO. 48-52-1125

2-3/4" DIA. STAINLESS STEEL SINGLE ROW KNOT WIRE CUP BRUSH MAX. SPEED 12,000 RPM .020 WIRE

5/8"-11 THREAD NO. 48-52-5050 1/2"-13 THREAD NO. 48-52-1130

> 3" DIA. CARBON CRIMPED WIRE CUP BRUSH

MAX. SPEED 12,000 RPM .012 WIRE 5/8"-11 THREAD NO. 48-52-5060 1/2"-13 THREAD NO. 48-52-1135





HEAVY-DUTY 13 AMP SANDERS

11 MUNICE POWERFUL

SMOOTH RUNNING

ALL BALL BEARINGS

■ MILWAUKEE SANDERS MAY BE CONVERTED TO GRINDERS BY USING THE PROPER WHEEL GUARD FOR GRINDING OPERATIONS. SEE PAGES 91 AND 92 FOR ASSEMBLIES, WHEEL GUARDS AND ACCESSORIES.

LIGHTWEIGHT - ONLY 9-1/4 LBS.

SPIRAL BEVEL GEARING

REPLACEABLE ARMATURE PINION

LOW PROFILE DESIGN facilitates sanding in confined areas.

 GLASS FILLED NYLON MOTOR HOUSING non-conductive Lighter, cooler, more comfortable

REVERSIBLE SIDE HANDLE

HEAVY-DUTY SWITCH
 RECESSED SPINDLE LOCK BUTTON

BALL BEARING MOUNTED ARMATURE is dynamically balanced and vibration free.

 SELF-STOPPING LONG LIFE BRUSH SYSTEM stops tool when brushes are worn prevents damage to commutator. External brush holders permit inspection and replacement of brushes without disassembly of sanders.

SMOOTH RUNNING all ball bearings.
 Bearings and seals matched to armature speed.

 HEAVY-DUTY URETHANE TOOL REST for Model 6072 only.

6072

7"/9" DIA. 13 AMP

5000 RPM

6075 7" DIA. 13 AMP 6000 RPM

• 6000 RPM • DOUBLE INSULATED

STEEL CARRYING CASE NO. 48-55-0890 For Models 6072 and 6075

> TYPE "G" GREASE 1 lb. can NO. 49-08-4140



BUILT-IN TOOL REST for even LOWER PROFILE DESIGN

SPECIFICATIONS

CATALOG NUMBER	SPEED RPM	DISC DIAMETER	VOLTS AC-DC	AMPS	MAXIMUM MOTOR POWER OUTPUT H.P.	SPINDLE THREAD SIZE	LENGTH LESS DISC	NET WEIGHT	SHIPPING WEIGHT
6072	5000	7"/9"	120	13.0	2.25	5/8"-11	17"	9-1/4 lbs.	12 lbs.
6075	6000	7"	120	13.0	2.25	5/8"-11	17"	9-1/4 lbs.	12 lbs.

STANDARD EQUIPMENT: Side Handle, Flange and Nylon Washer only. Order all other accessories separately.

SEE PAGE 93 for: Sanding Discs, Backing Pad Assemblies, Sanding Disc Trimmer

HEAVY-DUTY 15 AMP SANDER/GRINDERS

INDUSTRIAL/ CONSTRUCTION ELECTRONICS ON MODELS 6095 096, 6098 ONLY

THE PROPER WHEEL GUARD FOR GRINDING OPERATIONS. SEE PAGE 91 AND 92 FOR ASSEMBLIES, WHEEL GUARDS AND ACCESSORIES.

SEE PAGE 93 FOR SANDING ACCESSORIES

SANDERS

6065 7"/9" DIA.

5000 RPM

6066 7"/9" DIA 6000 RPM



6067 9" DIA. 5000 RPM

6068 7" DIA. 6000 RPM

6069 NEW 7" DIA. 6000 RPM



POWERFUL 3.5 HP

- HEAVY-DUTY ALUMINUM GEAR CASE AND MOTOR HOUSING
- SPIRAL BEVEL GEARING For Smoother operation and longer tool life.
- SPINDLE BEARING-double sealed to prevent dust contamination in heaviest use.
- REMOVABLE VENT COVER PERMITS INSPECTION OF **BRUSHES AND COMMUTATOR**
- SELF-STOPPING LONG LIFE BRUSHES-Stops tool when brushes are worn-prevents damage to commutator. Brushes are externally accessible for quick replacement without disassembly of
- REMOVABLE ARMATURE PINION
- HI-VOLUME AIR FLOW FAN—for cooler running motor.
- BALL BEARING MOUNTED ARMATURE dynamically balanced and vibration free
- ALL BALL AND ROLLER BEARINGS
- LARGE FLANGE REVERSIBLE SIDE HANDLE Right or left handed operation.
- RECESSED SPINDLE LOCK BUTTON—Easily replaceable.
- HEAVY-DUTY IMPACT RESISTANT URETHANE TOOL REST
- NYLON SPINDLE WASHER for easy wheel removal—prevents wheels from freezing on spindle.

SANDERS

6095

6096

7"/9" DIA. 6000 RPM



GRINDERS 6070

7" DIA. 8000 RPM

6098 7" DIA. 8000 RPM MODEL 6070 HAS GUARD, HUB ADAPTER AND NUT FOR WHEELS WITHOUT INTEGRAL HUB. ORDER WHEEL SEPARATELY.



INCLUDE GUARD AND GRINDING WHEEL. BOTH GRINDERS MAY BE USED AS SANDERS BY REMOVING THE GUARD AND USING BACKING PADS AND DISCS SELECTED FROM PAGE 93.

MODELS 6095, 6096 AND 6098

Feature CONTROLLED START...Drastically reduces Torque Reaction when starting tool..extends gear, brush and motor life.

LINE LOCK-OUT FEATURE Prevents tool from operating should voltage be restored to an interrupted line when switch is locked in the "on" position.

MODELS 6070 AND 6098

8000 RPM FOR SUPER FAST GRINDING-NOT RECOMMENDED FOR SANDING.

GRINDING WHEEL NOT INCLUDED...SELECT **GRINDING ACCESSORIES FROM PAGES 91, 92.**

STEEL CARRYING CASE For all models NO. 48-55-0890

SPECIFICATIONS

CATALOG NUMBER	SPEED RPM	DISC DIAMETER	VOLTS AC-DC	AMPS	MAXIMUM MOTOR POWER OUTPUT H.P.	SPINDLE THREAD SIZE	LENGTH LESS GUARD	NET WEIGHT	SHIPPING WEIGHT
6065 ON/OFF AC/DC Switch	5000	7"/9"	120	15.0	3.5	5/8"-11	17-1/2"	12 lbs.	16-3/4 lbs.
6066 ON/OFF AC/DC Switch	6000	7"/9"	120	15.0	3.5	5/8"-11	17-1/2"	12 lbs.	16-3/4 lbs.
6067 ON/OFF AC/DC Switch	5000	9"	120	15.0	3.5	5/8"-11	17-1/2"	14-3/4 lbs.	19-1/2 lbs.
6068 ON/OFF AC/DC Switch	6000	7''	120	15.0	3.5	5/8"-11	17-1/2"	14 lbs.	18-3/4 lbs.
6069 ON/OFF AC/DC Switch	6000	7"	120	15.0	3.5	5/8"-11	17-1/2"	14 lbs.	17-1/4 lbs.
6070 ON/OFF AC/DC Switch	8000	7"	120	15.0	3.5	5/8"-11	17-1/2"	12-3/4 lbs.	18-1/2 lbs.
6095 With Controlled Start	5000	7"/9"	120 *	15.0	3.5	5/8"-11	17-1/2"	12 lbs.	16-3/4 lbs.
6096 With Controlled Start	6000	7"/9"	120 *	15.0	3.5	5/8"-11	17-1/2"	12 lbs.	16-3/4 lbs.
6098 With Controlled Start	8000	7''	120 *	15.0	3.5	5/8"-11	17-1/2"	12-3/4 lbs.	17-1/2 lbs.
at a solution of the solution									

* For DC Voltage, tool operates without controlled start feature.

STANDARD EQUIPMENT: For 6065, 6066, 6095, 6096. Side Handle, Flange and Nylon Washer only. For 6067. Side Handle, Flange, Nylon Washer, 9" Guard and 9" 24 Grit Aluminum Oxide Wheel. For 6068. Side Handle. Flange, Nylon Washer, 7" Guard and 7" 24 Grit Aluminum Oxide Wheel. For 6069. Side Handle, Flange, Nylon Washer, 7" Guard, Disc Nut, Spanner Wrench and Hub Adapter. For 6070. Side Handle, Flange, Nylon Washer, 7" Guard, Disc Nut, Spanner Wrench and Hub Adapter. For 6098. Side Handle, Flange, Nylon Washer, Wheel Guard and mounting hardware.



HEAVY-DUTY GRINDER ACCESSORIES

WARNING: ALWAYS USE COMBINATIONS OF SAFETY ATTACHMENTS AS ILLUSTRATED.

• WEAR SAFETY GOGGLES. • SAFETY GUARDS REQUIRED.

NOTE: THE MAXIMUM SAFE OPERATING SPEED SHOWN ON THE GRINDING WHEELS MUST BE GREATER THAN THE NO LOAD SPEED OF THE TOOL.

DISPOSABLE HUB DEPRESSED CENTER TYPE 27 GRINDING WHEEL

Strong and tough. Fiberglass reinforced to resist breakage from twisting, starting torque or lateral pressure.

§ MILWAUKEE recommends Grinding Wheels be used with nylon washer No. 45-88-8465 and flange NO. 49-05-0060.





GUARD FOR TYPE 27 **GRINDING WHEEL** 49-12-0350 Fits 7" Wheels Fits 9" Wheels 49-12-0340

CATALOG NUMBER					MAX. SAFE SPEED RPM
ALUN	IINUM OXII	DE W	HEELS I	FOR META	AL
49-93-3110	24 GRIT 7	" x 1/	4" 5/8"-11	Thd. Hub	8500
49-93-3230	24 GRIT 9	" x 1/	4" 5/8"-11	Thd. Hub	6500
49-93-3170	46 GRIT 7	" x 1/	4" 5/8"-11	Thd. Hub	8500
49-93-3290	46 GRIT 9	" x 1	4" 5/8"-11	Thd. Hub	6500
SILICON CA	RBIDE WHE	ELS	FOR STO	NE OR CO	NCRETE
49-93-3130	16 GRIT 7	7" x 1	4" 5/8"-11	Thd. Hub	8500
49-93-3250	16 GRIT 9	9" x 1	4" 5/8"-11	Thd. Hub	6500

CATALOG NUMBER (10 WHEELS PER BOX) (BOX OF 10)

MAX. SAFE SPEED RPM

ALUMINUM OXIDE WHEELS FOR METAL

49-94-3111	DOV	24	GRIT	7"	X	1/4"	5/8"-11	Thd.	Hub	8500
49-94-3111 49-94-3231	BUX	24	GRIT	9"	X	1/4"	5/8"-11	Thd.	Hub	6500
49-94-3171	OF	46	GRIT	7"	X	1/4"	5/8"-11	Thd.	Hub	8500
49-94-3291	10	46	GRIT	9"	X	1/4"	5/8"-11	Thd.	Hub	6500

SILICON CARBIDE WHEELS FOR STONE OR CONCRETE BOX

16 GRIT 7" x 1/4" 5/8"-11 Thd. Hub 16 GRIT 9" x 1/4" 5/8"-11 Thd. Hub 8500 OF 49-94-3251 6500 10

DEPRESSED CENTER TYPE 27 WHEELS

WITH 7/8" REINFORCED ARBOR HOLE...SOLD ONLY IN BOXES OF 10

The same high quality grinding wheel as the reinforced wheel above, but with 7/8" reinforced arbor hole. Use with guard, hub adapter and wheel nut. Less expensive than wheels with disposable hub.

§ MILWAUKEE recommends Grinding Wheels be used with nylon washer No. 45-88-8465 and flange No. 49-05-0060.

GUARD FOR TYPE 27 GRINDING WHEELS 49-12-0350 Fits 7" Wheels Fits 9" Wheels 49-12-0340



TYPE 27

GRINDING WHEEL WITH 7/8" REINFORCED ARBOR HOLE

49-40-0380 WHEEL NUT For disc wheel

CATALOG NUMBER (10 WHEELS PER BOX) 49-94-3112 BOX 49-94-3232

24 GRIT 7" x 1/4" 24 GRIT 9" x 1/4" 46 GRIT 7" x 1/4" OF 49-94-3172 10 49-94-3292 46 GRIT 9" x 1/4"

ALUMINUM OXIDE WHEELS FOR METAL

GRINDING WHEELS HAVE

7/8" REINFORCED ARBOR HOLE

Disc Nut also requires NO. 49-96-7201 Spanner Wrench.

HUB ADAPTER For use with depressed center hub wheels with 7/8" diameter hole.

CURVED REINFORCED TYPE 28 GRINDING WHEELS

Fiberglass reinforced curved grinding wheels for grinding welds. Contour shape permits easier accessibility to work surfaces.

§ MILWAUKEE recommends Grinding Wheels be used with nylon washer No. 45-88-8465 and flange NO. 49-05-0060.

GUARD FOR TYPE 28 GRINDING WHEELS 49-12-0100 Fits 7" Grinder 49-12-0110 Fits 9" Grinder



CATALOG NUMBER 49-93-3120 49-93-3240 49-93-3180 49-93-3300

24 GRIT 7" x 1/4" 5/8"-11 Thd. Hub 24 GRIT 9" x 1/4" 5/8"-11 Thd. Hub 46 GRIT 7" x 1/4" 5/8"-11 Thd. Hub 46 GRIT 9" x 1/4" 5/8"-11 Thd. Hub

SPEED RPM 7750 6500 7750 6500

MAX. SAFE

MAX. SAFE

SPEED RPM

8500

6500

8500

6500



HEAVY-DUTY GRINDER ACCESSORIES

- WARNING: ALWAYS USE COMBINATIONS OF SAFETY ATTACHMENTS AS ILLUSTRATED.
 - WEAR SAFETY GOGGLES.
 SAFETY GUARDS REQUIRED.

NOTE: THE MAXIMUM SAFE OPERATING SPEED SHOWN ON THE ACCESSORY MUST BE GREATER THAN THE NO LOAD SPEED OF THE TOOL.

FLARED CUP GRINDING WHEELS.

Aluminum oxide for all general purpose metal grinding. Resinoid bonded. These wheels are fitted with 5/8"-11 threaded bushing molded integrally for ready mounting.

For use on 13 and 15 amp Sanders. Skirt guard as well as flange No. 49-05-0030 and nylon washer. No. 45-88-8465 must be used for proper installation of this accessory.





FLARED CUP GRINDING WHEEL CATALOG NUMBER

49-93-5140
49-93-5220
16 GRIT 4" DIA. FOR 7" GRINDERS 5/8"-11 Thd.
9000
7200

ADJUSTABLE SKIRT GUARD FOR FLARED CUP GRINDING WHEELS

49-12-0062 * For 4" Cup Wheel FLANGE INCLUDED FOR 5" Cup Wheel

* Previous models 6022, 6062, 6082, 6084, 6086, 6088, 6089, 6090, 6102 and 6104. Use 4" guard, No. 49-12-0061 or 5" guard, No. 49-12-0071.

ARMOR CUP GRINDING WHEELS.

Resinoid bonded. Special fine grit outer rim wears slowly...prevents rounded edges for high performance without distortion. Eliminates waste by maintaining a flat grinding surface even under the toughest conditions...provides longer usable cup life. 5/8"-11 threaded bushing integrally molded for easy mounting.

• For use on 13 and 15 amp Sanders. Skirt guard as well as flange No. 49-05-0030 and nylon washer. No. 45-88-8465 must be used for proper installation of this accessory.



ARMOR CUP GRINDING WHEEL CATALOG NUMBER

ALUMINUM OXIDE ARMOR CUP FOR METAL

49-93-5250 16/24 GRIT 4" DIA. FOR 7" GRIND. 5/8"-11 Thd. 9000
49-93-5270 16/24 GRIT 5" DIA. FOR 9" GRIND. 5/8"-11 Thd. 7200

SILICON CARBIDE ARMOR-CUP FOR STONE OR CONCRETE

 49-93-5260
 16/24 GRIT 4" DIA. FOR 7" GRIND. 5/8"-11 Thd.
 9000

 49-93-5280
 16/24 GRIT 5" DIA. FOR 9" GRIND. 5/8"-11 Thd.
 7200

ADJUSTABLE SKIRT GUARD FOR ARMOR-CUP GRINDING WHEELS

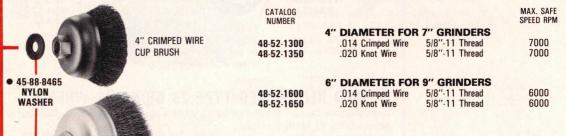
49-12-0062 * For 4" Cup Wheel FLANGE INCLUDED FLANGE INCLUDED

* Previous models 6022, 6062, 6082, 6084, 6086, 6088, 6089, 6090, 6102 and 6104. Use 4" guard, No. 49-12-0061 or 5" guard, No. 49-12-0071.

CRIMPED or KNOT WIRE CUP BRUSHES

6" CRIMPED WIRE CUP BRUSH

Finest quality crimped or knot wire brushes to give long service life on the toughest cleaning jobs. Ideally suited for cleaning castings, structural steel, sheet metal, stone and concrete.





SEE PAGE 93 FOR SANDING DISC, BACKING PAD ASSEMBLIES, SANDING DISC TRIMMER

HEAVY-DUTY SANDER ACCESSORIES

BACKING PAD ASSEMBLIES

Light, perfectly balanced assemblies provide flexibility for curves and contours. Abrasive discs can be trimmed down to the next smaller diameter to be used with smaller backing discs, affording greater economy.

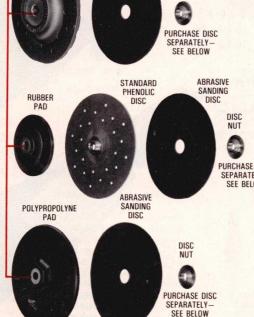
SPIRAL DESIGN BACKING PAD AIR COOLED...IDEAL FOR ALL SANDING OPERATIONS ON METAL, PLASTIC, FIBERGLASS, ETC. ABRASIVE











SPIRAL DESIGN PAD ASSEMBLY

COMPLETE ASSEMBLY INCLUDES RUBBER PAD AND DISC NUT

Does Not Include Abrasive Sanding Disc

NO. 49-36-3800 7" DIA. MAX. SPEED 7500 RPM NO. 49-36-3850 Q" DIA MAX. SPEED 6000 RPM

> DISC NUT ONLY NO 49-40-0360

RUBBER PAD ASSEMBLY

COMPLETE ASSEMBLY **INCLUDES RUBBER PAD AND DISC NUT**

Does Not Include Abrasive Sanding Disc

NO. 49-36-3700 7" DIA. MAX. SPEED 7500 RPM NO. 49-36-3750 9" DIA MAX. SPEED 7000 RPM

> DISC NUT ONLY NO. 49-40-0360

STANDARD PHENOLIC DISC ASSEMBLIES

COMPLETE ASSEMBLY INCLUDES RUBBER PAD, DISC AND DISC NUT

Does Not Include Abrasive Sanding Disc NO. 49-36-6000 7" DIA. MAX. SPEED 10,000 RPM 9" DIA. NO. 49-36-6050 MAX. SPEED 10,000 RPM

PHENOLIC DISC ONLY

Must Be Used With Rubber Pad No. 49-36-3500

NO. 48-80-6000 7" DIA. MAX, SPEED 10,000 RPM NO. 48-80-6050 9" DIA MAX. SPEED 10,000 RPM

RUBBER PAD ONLY DISC NUT ONLY NO. 49-36-3500

MAX. SPEED 10,000 RPM NO. 49-40-0350

POLYPROPYLENE PAD Includes Disc Nut

Does Not Include Abrasive Sanding Disc NO. 49-36-3900

7" DIA. MAX. SPEED 10,000 RPM

DISC NUT ONLY NO. 49-40-0360

ABRASIVE SANDING DISCS

BOX OF 5

ABRASIVE SANDING DISC TRIMMER

INCREASE THE LIFE

OF USED SANDING

DISCS BY TRIMMING

NO. 49-80-1000

REPLACEMENT

UPPER BLADE NO. 49-80-1050

LOWER BLADE

NO. 49-80-1150

NO. 48-80-2320

NO. 48-80-2330

NO. 48-80-2340 NO. 48-80-2350

NO. 48-80-2360

NO. 48-80-2250

CUTTER BLADES

Ceramic Sanding Discs

MILWAUKEE's highest quality, premium grade Ceramic Discs last up to 3 times longer than Aluminum Oxide Discs. For general metal working.

CATALOG NUMBER FOR 7" DIAMETER ASSEMBLIES (5 PER PACK)

> 24 GRIT MAX. SPEED 7000 RPM 36 GRIT MAX. SPEED 7000 RPM 50 GRIT MAX. SPEED 7000 RPM 60 GRIT MAX. SPEED 7000 RPM 80 GRIT MAX. SPEED 7000 RPM

Ideal for tough applications. Greatly improved surface finish with reduced loading.

CATALOG NUMBER **FOR 9" DIAMETER ASSEMBLIES** (5 PER PACK) NO. 48-80-2820 24 GRIT MAX. SPEED 7000 RPM NO. 48-80-2830 36 GRIT MAX. SPEED 7000 RPM MAX. SPEED 7000 RPM NO. 48-80-2840 BOX OF 5 50 GRIT NO. 48-80-2850 60 GRIT MAX. SPEED 7000 RPM NO. 48-80-2860 MAX. SPEED 7000 RPM

Aluminum Zirconia Bi-Cut Sanding Discs

A high quality disc ideal for paint removal on cars, boats, fiberglass, etc. Unique grit pattern is arranged in clusters for faster stock removal and

MAX. SPEED 7000 RPM

MAX. SPEED 7000 RPM

cleaning-runs cooler and clogs less than standard Aluminum Oxide discs.

CATALOG NUMBER FOR 7" DIAMETER ASSEMBLIES (5 PER PACK) NO. 48-80-2300 24 GRIT MAX. SPEED 7000 RPM BOX OF 5 NO. 48-80-2310 36 GRIT MAX. SPEED 7000 RPM

CATALOG NUMBER FOR 9" DIAMETER ASSEMBLIES (5 PER PACK) NO. 48-80-2800 MAX. SPEED 7000 RPM 24 GRIT BOX OF 5 NO. 48-80-2810 36 GRIT MAX. SPEED 7000 RPM

Aluminum Oxide Sanding Discs

Fast cutting general purpose discs for most metal working applications. CATALOG NUMBER

FOR 7" DIAMETER ASSEMBLIES (10 PER BOX) NO. 48-80-2000 16 GRIT MAX. SPEED 7000 RPM NO. 48-80-2050 24 GRIT MAX. SPEED 7000 RPM NO. 48-80-2100 **BOX OF 10** 36 GRIT MAX. SPEED 7000 RPM NO. 48-80-2200

60 GRIT

80 GRIT

Tough aluminum oxide grit, resin bonded to fiber backing. CATALOG NUMBER

FOR 9" DIAMETER ASSEMBLIES (10 PER BOX) NO. 48-80-2500 16 GRIT MAX. SPEED 7000 RPM NO. 48-80-2550 24 GRIT MAX. SPEED 7000 RPM MAX. SPEED 7000 RPM NO. 48-80-2600 BOX OF 10 36 GRIT NO. 48-80-2700 MAX. SPEED 7000 RPM 60 GRIT NO. 48-80-2750 MAX. SPEED 7000 RPM 80 GRIT



HEAVY-DUTY STRAIGHT GRINDERS

FEATURES

- HEAVY-DUTY MILWAUKEE-BUILT MOTORS
- STRONG, LIGHTWEIGHT, NON-CONDUCTIVE GLASS FILLED NYLON HANDLE
- HIGH IMPACT RESISTANT URETHANE TOOL REST
- COATED SPINDLE HOUSING FOR COOL GRIPPING SURFACE
- HARDENED HELICAL-CUT ALLOY STEEL GEARS AND SHAFT
- SELF-STOPPING, LONG LIFE BRUSH SYSTEM
- BALL BEARING MOUNTED ARMATURE
- HEAVY-DUTY ALUMINUM GEAR CASE

SPECIFICATIONS

	CATALOG NUMBER	VOLTS AC-DC		WHEEL SIZE	HOLE DIA.	NO LOAD RPM	SPINDLE THREAD SIZE	LENGTH	WGT. LBS.	WGT. LBS.	
	5211	120	11	1/2"x3"	3/8"	14,500	3/8"-24	21	7-3/4	8-3/4	
4	▶5223	120	12	5"	5/8"	7000	5/8"-11	20	10-1/4	16	
	5243	120	15	6''	5/8"	5500	5/8"-11	22	16-1/2	22	

Not available in Canada.

STANDARD FOUIPMENT

FOR NO. 5211-Includes one 36 grit grinding wheel, wheel guard with hinged face plate and two wrenches.

FOR NO. 5223-Includes one 24 grit grinding wheel, wheel guard and two wrenches.

FOR NO. 5243—Includes 24 grit grinding wheel and adjustable steel wheel guard with hinged face plate and two wrenches.

NOTE: The maximum safe operating speed shown on grinding wheels and tuck point abrasive wheels must be greater than the no load speed of the tool.

ACCESSORIES



KNOT WIRE BRUSHES

CATALOG NUMBER	DIA. INS.	HOLE DIAMETER	WIRE SIZE	WHEEL SPEED
48-52-2310	5	5/8"	.014	8000
48-52-2510	6	1/2"-5/8"	.014	8000





CATALOG NUMBER	GRIT	SIZE INS.	HOLE DIA.	SPEED (RPM)
49-92-2240	24	5×1	5/8"	7,200
49-92-3260	24	6×1	5/8"	6,000
49-92-0500	36	$3 \times 1/2$	3/8"	18,000
49-92-0510	60	$3 \times 1/2$	3/8"	18,000
49-92-0200*	60	$2 - 1/2 \times 1/2$	3/8"	21,000
49-92-0250*	36	$2 - 1/2 \times 1/2$	3/8"	21,000

^{*} For previous Model 5210.



CLOTH BUFFING WHEELS 1/4" Width 4 per package

CATALOG NUMBER	SIZE (IN.)	HOLE DIA.
49-93-0071	5	5/8"
49-93-0091	6	5/8"

WRENCHES

Not available in Canada.

◆49-96-6600 Spanner Wrench for No. 5223.
49-96-4050 9/16" Wrench for No. 5210, 5211.
49-96-4075 1" Wrench for No. 5210, 5211.
49-96-4072 1-1/16" Wrench for No. 5223, 5243.
49-96-7230 Spanner Wrench for No. 5243.

GREASE-ONE POUND CANS

49-08-4110 "D" Grease, for 5210, 5211. **49-08-4140** "G" Grease, for 5223, 5243.



TUCK POINT GUARD 8" Guard 49-12-0310

DRY CUTTING DIAMOND BLADE

For use with Straight Grinder model 5243 and Tuck Point Guard 49-12-0310.

49-93-8025	8	Continuous Rim	5/8" or Diamond Knockout	7500
CATALOG NUMBER	DIA.	TYPE	ARBOR HOLE DIAMETER	MAXIMUM BLADE SPEED (RPM)

TUCK POINT GRINDER ACCESSORY KITS

49-22-6050 Includes wheel guard, spacer unit and $8'' \times 1/8'' \times 5/8''$ hole abrasive wheel. Converts previous models 5220 and 5240 into Tuck Point Grinders.

49-22-6055 Includes wheel guard, spacer unit and $8'' \times 1/8'' \times 5/8''$ hole abrasive wheel. Converts 5243 into Tuck Point Grinder.

WHEEL GUARD ASSEMBLIES

49-12-0280 3" For Grinder Number 5211 **♦49-12-0290** 5" For Grinder Number 5223

49-12-0160 6" For Grinder Number 5243

49-12-0140 5" Previous Model Grinder Number 5220 **49-12-0160** 6" Previous Model Grinder Number 5240

Not available in Canada.

HEAVY-DUTY DIE GRINDERS

Milwanker STRONG, LIGHTWEIGHT, NON-CONDUCTIVE GLASS FILLED NYLON MOTOR HOUSINGS & HANDLES HEAVY-DUTY MILWAUKEE BUILT MOTORS
 HEAVY-DUTY ALUMINUM GEAR CASES
 HIGH EFFICIENCY FANS



MAX. GRINDING WHEEL DIA. NET SHP CATALOG VOLTS NUMBER AC-DC AMPS COLLET LOAD WGT ORGANIC RPM LBS. NON-REINFORCED LENGTH LBS 5192 120 4.5 1/8+-1/4‡ 2" 1-5/8" 21,000 13-1/2 4-1/2 4-3/4 120 4.5 1/8+-1/4# 2" 1-5/8" 21,000 13-1/2 4-1/2 4-3/4 **5196** 120 11 1/8+-1/4‡ 2" 2" 14.500 21-1/2 7-3/4 8-3/4

† Available as accessory only ‡ Standard equipmen

■ NOTE: These Grinders are not supplied with grinding wheels. Before using any grinding wheel be sure speed shown for that wheel is greater than the no load speed of the tool. Tables of maximum operating speeds for mounted wheels are included in the instructions packed with each new grinder. CAUTION: NEVER OPERATE TOOL WITHOUT GRINDING WHEEL OR DOWEL PROPERLY SECURED IN ITS COLLET.

ACCESSORIES

FOR DIE GRINDER MODELS 5192 AND 5194 NO. 48-66-0975 * 1/4" Collet

NO. 49-96-4090 * 11/16" Open End Wrench NO. 49-96-4040 * 1/2" Open End Wrench NO. 48-66-0965 1/8" Collet

Type "D" Grease, 1 lb. can NO. 49-08-4110 * Included as Standard Equipment.

FOR DIE GRINDER NO. 5196

NO. 48-66-0975 * 1/4" Collet NO. 49-96-4090 * 11/16" Open End Wrench NO. 49-96-4040 * 1/2" Open End Wrench

NO. 49-96-4075* 1" Open End Wrench NO. 48-66-0965 1/8" Collet

NO. 48-68-0030 Collet Nut-Replacement NO. 48-68-0040 Collet Body-Replacement Type "D" Grease, 1 lb. can NO. 49-08-4110

* Included as Standard Equipment.

FOR PREVIOUS MODEL 5195

With Serial Number below 525-10500 NO. 48-66-0970 * 1/4" Collet

NO. 49-96-4040 * 1/2" Open End Wrench NO. 49-96-4065 * 5/8" Open End Wrench

NO. 49-96-4075 * 1" Open End Wrench NO. 48-66-0960 1/8" Collet

NO. 49-08-4110 Type "D" Grease, 1 lb. can

* Included as Standard Equipment.

With Serial Numbers above 525-10500

NO. 48-66-0965 1/8" Collet

NO. 48-66-0975 * 1/4" Collet NO. 49-96-4090 * 11/16" Wrench

NO. 49-08-4110 Type "D" Grease, 1 lb. can * Included as Standard Equipment.

COLLET ASSEMBLY NO. 48-66-2090 To convert model 5195 with serial nos. below 525-10500 to new collet system. Includes collet body (48-68-0040) and nut (48-68-0030) order collet separately.

DIE GRINDING POINTS ASSORTMENTS



23 PIECE SET NO. 49-95-0005



50 PIECE SET NO. 49-95-0006

WELL ORGANIZED, ATTRACTIVE VISUAL DISPLAYS FOR FAST CUSTOMER SELECTION...INVENTORY CONTROL

23 PIECE SET CONSISTS OF: 5 EACH OF POINTS SHOWN IN RED IN CHART AT RIGHT AND 3 ONLY OF W242

50 PIECE SET CONSISTS OF: 5 EACH OF POINTS SHOWN IN BLACK IN CHART AT RIGHT.

60 GRIT ALUMINUM OXIDE GRAIN DIE GRINDING POINTS

"GENERAL PURPOSE" 1/4" × 1-1/2" MANDRELS For Finish Grinding, De-Burring, Chamfering and Sharpening

25 MOUNTED POINTS PER BOX A11 49-95-0030 A3 49-95-0020 A1 49-95-0010 A4 49-95-0060



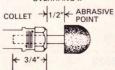
When using MILWAUKEE Die Grinder No. 5196, Mounted Point maximum ed (RPM) must be

When using MILWAUKEE Die Grinder Nos. 5192 and 5194, Mounted Point maximum speed (RPM) must be greater than 23,100 RPM.

eater than 15,950 RPM

SEE CHART AT RIGHT.

MAXIMUM MANDREL OVERHANG *



MINIMUM MANDREL DEPTH

25 MOUNTED POINTS PER BOX CATALOG DIAMETER THICKNESS SHAPE NUMBER

A1	49-95-0010	3/4"	2-1/2"	19,800
A3	49-95-0020	1"	2-3/4"	16,100
A11	49-95-0030	7/8"	2"	19,860
W222	49-95-0040	1"	2"	15,950
W242	49-95-0050	2"	1"	19,100
A4	49-95-0060	1-1/4"	1-1/4"	30,560
A12	49-95-0070	11/16"	1-1/4"	48,000
A15	49-95-0080	1/4"	1-1/16"	72,750
A21	49-95-0090	1"	1"	34,500
A24	49-95-0100	1/4"	3/4"	76,500
A34	49-95-0110	1-1/2"	3/8"	25,470
A37	49-95-0120	1-1/4"	1/4"	30,560
W220	49-95-0130	1"	1"	25,500
W216	49-95-0140	1"	1/4"	38,200
W215	49-95-0150	1"	1/8"	38,200

* OVERHANG—the distance, on the mandrel, between the bot-tom of the abrasive and the top of the collet.

MAXIMIM

SPEED (RPM)

OVERHANG *

1/2"

Milwaukee

HEAVY-DUTY ABRASIVE CUT-OFF MACHINES

15 AMP MOTOR • FOR USE WITH ABRASIVE CUT-OFF WHEELS

FAST CUTTING ACTION IN ANGLE IRON, PIPE, TUBING, CONDUIT and CHANNELS

6165 12" BLADE SIZE

Wheel rotation directs particles away

 Easily accessible self-disconnect

brushes

Straight long handle provides leverage for ease of operation

6170 14" BLADE SIZE NOW MORE POWERFUL!

MILWAUKEE Heavy-Duty Abrasive Cut-Off Machines are designed for maximum cutting efficiency in any shop or job site location. Powerful motor, huge cutting capacity, rugged heavy-duty construction to provide stable cutting of angle iron, pipe, tubing, conduit and channels.

Double spring on arm to minimize resistance of saw travel in either direction

from operator

Heavy-duty aluminum die-cast base. Rigid... vibration free Heavy-duty vise is double thick metal for sure, secure grip...long life

Strap handle positioned for balanced carrying

Chain for locking saw in down position is short...out of way



Guard plate pivots open for easy access when changing wheel

Machined steel slides for smooth vise travel... long life Unit may be permanently mounted through use of (3) holes in base

BAAVIBALIBA

Large screw

holder for extra thread engagement... sturdy, accurate maintenance free

Accurate miter adjustment markings on pivoting vise for miter cuts 0° to 45°

Fast one screw adjustment to change vise cutting angle

SPECIFICATIONS

				SPEED			CAPACITIES			
BLADE SIZE	CATALOG NUMBER	VOLTS AC	AMPS	(NO LOAD) RPM	ARBOR	O.D. PIPE DIAMETER	BAR STOCK	SQUARE STOCK	NET WEIGHT	SHP. WEIGHT
12"	6165	115	15	4200	1"	4"	2-3/8"	4"	35 lbs.	42 lbs.
14"	6170	115	15	3350	1"	5"	2-9/16"	4-3/8"	40 lbs.	45 lbs.

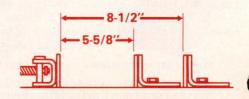
STANDARD EQUIPMENT: Includes Vice, Abrasive Wheel, Open End Wrench, NO. 49-96-4120 and Spanner Wrench, NO. 49-96-7610.



30 GRIT ABRASIVE CUT-OFF WHEELS

PACKED AND SOLD ONLY IN BOXES OF 5

CATALOG NUMBER	BLADE DIAMETER	ARBOR DIAMETER	SAFE SPEED RPM
49-93-6220	12" × 3/32"	1"	5000
49-93-6230	14" × 3/32"	1"	4350



MAXIMUM OPENINGS FOR TWO POSITION VISE **HEAVY-DUTY BENCH GRINDERS**

6 • 7 • 8 • 10 INCH WHEEL SIZES



ALL BALL BEARINGS

MODELS AVAILABLE

SPECIFICATIONS

CATALOG NUMBER	NEMA RATED H.P.	AMPS	VOLTS	SPEED RPM	WHEEL SIZE	SPINDLE (ARBOR SIZE)	SPACE BETWEEN WHEELS	EYE SHIELDS	SHP. WGT. (LBS.)
♦ 4931	1/3 HP	3.8	115	3450	6"	1/2"	12-1/2"	Lighted	29 lbs.
4935	1/3 HP	3.8	115	3450	6"	1/2"	12-1/2"	Non-Lighted	29 lbs.
♦ 4991	1/2 HP	4.0	115	3450	7"	5/8"	15-1/8"	Lighted	41 lbs.
4995	1/2 HP	4.0	115	3450	7"	5/8"	15-1/8"	Non-Lighted	41 lbs.
♦ 5051	3/4 HP	4.4	115	3450	8"	3/4"	15-5/8"	Lighted	57 lbs.
♦ 5091	1 HP	8.5/4.2	115/230	1725	10"	3/4"	17-3/8"	Lighted	90 lbs.

[♦]Not available in Canada.

NOTE: All grinders supplied with eye shields and one coarse and one medium grinding wheel. 6" models have stamped steel tool rests.



PLEXIGLASS LENS ONLY



Replacement plexiglass lens only for lighted eye shields as supplied with Grinder Numbers 4931, 4991, 4995, 5051 and 5091. Order replacement frames separately from the Service Parts List.



PLEXIGLASS LENS FRAME **COMBINATION PAIR**

NO. 49-62-0120

Replacement units for Grinders without lighted eye shields Number 4935.

GRINDER PEDESTAL NO. 49-39-0050

Heavy gray iron castings with tubular steel column. Removable water pot. Adaptable to all models. Height 34". Shp. Wt. 54 lbs. Shown with model 4991.



GRINDING WHEELS

1" ARBOR HOLE ON ALL WHEELS 3/4", 5/8", 1/2" BUSHINGS SUPPLIED WITH EACH GRINDING WHEEL

	CATALOG NUMBER	SIZE (IN.)	MAX. WHEEL SPEED	
	49-92-3305	6" × 3/4"	4140	
36	49-92-3310	7"×1"	3600	
GRIT	49-92-3315	8"×1"	3600	
	49-92-3320	10" × 1"	2485	
	49-92-3325	6" × 3/4"	4140	
60	49-92-3330	7"×1"	3600	
GRIT	49-92-3335	8"×1"	3600	
	49-92-3340	10" × 1"	2485	
	49-92-3345	6" × 3/4"	4140	
80	49-92-3350	7"×1"	3600	
GRIT	49-92-3355	8"×1"	3600	

CRIMP WIRE BRUSHES



CATALOG NUMBER	SIZE (IN.)	ARBOR HOLE (DIA.)	WIRE SIZE	MAX. WHEEL SPEED
48-52-2515	6	5/8-1/2"	.008	6000
48-52-2520	6	5/8-1/2"	.014	6000
48-52-2715	7	5/8"	.008	4500
48-52-2720	7	5/8"	.014	4500
48-52-2730	7	3/4"	.008	4500
48-52-2740	7	3/4"	.014	4500
48-52-4820	10	3/4"	.014	3600

CLOTH BUFFING WHEELS



1/4" Width	4 per	package
CATALOG	SIZE	HOLE
NUMBER	(IN.)	DIA.
49-93-0081	6"	1/2"
49-93-0091	6"	5/8"
49-93-0101	7"	5/8"
49-93-0106	8"	3/4"
49-93-0111	10"	3/4"

Milutuke

HEAVY-DUTY SHEARS

DOUBLE INSULATED

AR UNOBSTRUCTED VISIBILITY



EXCLUSIVE—LOWER SHEAR BLADE IS EASILY AND SECURELY ADJUSTABLE. SHEARED METAL RIDES SMOOTHLY OVER AND UNDER UNIQUE STEEL YOKE PROVIDING HIGH CUTTING EFFICIENCY AND SMOOTH EDGE.

- HIGH SPEED ACCURATE CUTTING MECHANISM
- SIMPLE BLADE ADJUSTMENT-NO SHIMS
- **BLADE DESIGN ELIMINATES JAMMING**
- LEAVES EDGES SMOOTH—BURR FREE
- NO ADJUSTMENTS FOR STRAIGHT CUTS-CURVES
- CUTS CLOSE CURVES EITHER RIGHT OR LEFT
- NEW BRUSH DESIGN FOR EASY **BRUSH REPLACEMENT**
- **ALUMINUM GEAR HOUSING**
- ALL BALL AND NEEDLE BEARINGS

6855

AC-DC PADDLE SWITCH Conveniently Mounted

for One Hand Operation

18 GAUGE

6855 3.0 AMPS 3600 STROKES PER MIN.

> 16 GAUGE 6805 4.0 AMPS **4000 STROKES**

PER MIN.

14 GAUGE

6815 5.0 AMPS

6805 & 6815

PER MIN.



SPECIFICATIONS

CATALOG	CAPAC	CAPACITY			STROKES PER	MINIMUM RADIUS		LENGTH	NET WGT.	SHP. WGT.
NUMBER	STEEL	STAINLESS	AC-DC	AMPS	MINUTE	LEFT	RIGHT	INCHES	LBS.	LBS.
6855	18 Ga. (.0478")	20 Ga. (.0355")	120	3.0	3600	1/2"	1"	9-5/8	4	5
6805	16 Ga. (.0598")	18 Ga. (.0480")	120	4.0	4000	1/2"	1"	10-1/4	5	6
6815	14 Ga (0747")	16 Ga. (.0595")	120	5.0	4000	3/4"	1"	10-1/4	5	6

Standard Equipment: Allen Wrenches, Feeler Gauge, Upper Blade and Lower Blade.

ACCESSORIES

SHEAR BLADE SETS

NO. 48-44-0112 Shear Blade Set for 14 Ga. NO. 48-44-0122 Shear Blade Set for 16 Ga. and 18 Ga. Sets include both upper and lower blades and screws.

5/64" Allen Wrench NO. 49-96-0040 NO. 49-96-0065 9/64" Allen Wrench NO. 49-11-0080

Feeler Gauge

NO. 49-08-4140

Type "G" Grease, 1 lb. can.

Milwankee

HEAVY-DUTY DOUBLE INSULATED NIBBLERS

16 GAUGE 3.8 AMPS 1900 STROKES PER MIN.

AC-DC PADDLE SWITCH CONVENIENTLY MOUNTED FOR ONE HAND OPERATION

CUTS SQUARE OR ROUND AND DEEP CORRUGATION INDEXING DIE HOLDER ALLOWS FOR EIGHT CUTTING POSITIONS

- INDEXABLE HEAD FOR REACHING "HARD TO GET" AREAS. ABILITY TO CUT FLAT, IRREGULAR AND CORRUGATED MATERIAL WITH-OUT CHANGING DIE HOLDER.
- HIGH SPEED ACCURATE CUTTING MECHANISM
- SIMPLE PUNCH AND DIE REPLACEMENT
 JAM FREE OPERATION
- DISTORTION FREE CUTTING
- NO ADJUSTMENTS FOR STRAIGHT OR CURVED CUTS
- CUTS SQUARE OR ROUND AND DEEP CORRUGATED METAL
- CLEAR UNORSTRUCTED VISIBILITY
- NEW BRUSH DESIGN FOR EASY BRUSH REPLACEMENT
- ALUMINUM GEAR HOUSING
- STARTING HOLE REQUIRED .87

ACCESSORIES

NO. 48-44-0260 Replacement Punch NO. 48-44-0270 Replacement Die

NO. 49-96-4725 Replacement Plate Wrench NO. 49-96-0330 Replacement 2.5mm Allen Wrench Type "G" Grease, 1 lb. can NO. 49-08-4140

10 GAUGE 4 AMPS 1000 STROKES PER MIN.





REMOVABLE SIDE HANDLE... USE ON EITHER SIDE FOR EXTRA CONTROL

- HIGH SPEED ACCURATE CUTTING MECHANISM
- SIMPLE PUNCH AND DIE REPLACEMENT
 JAM FREE OPERATION
- DISTORTION FREE CUTTING
- CLEAR UNOBSTRUCTED VISIBILITY
- NEW BRUSH DESIGN FOR EASY BRUSH REPLACEMENT
- ALUMINUM GEAR HOUSING
 STARTING HOLE REQUIRED 1.65"

ACCESSORIES

NO. 48-44-0265 Replacement Punch NO. 48-44-0275 Replacement Die NO. 49-96-0350 4mm Allen Wrench NO. 49-08-4140 Type "G" Grease, 1 lb. can

SPECIFICATIONS

CATALOG NUMBER	STEEL	PUNCH WIDTH	VOLTS AC-DC	AMPS	PER MINUTE	LENGTH INCHES	CUTTING RADIUS	WGT. LBS.	WGT. LBS.	
6890	16 Ga. (.0598")	18 Ga. (.0480")	.200	120	3.8	1900	11-1/4	1-3/4"	4-3/4	5-3/4
6880	10 Ga. (.1345")	12 Ga. (.1050")	.240	120	4	1000	12-1/4	2-1/2"	7-3/4	8-3/4

STANDARD EQUIPMENT: FOR 6890-Includes Punch, Die, Allen Wrench and Plate Wrench. FOR 6880-Includes Punch, Die, Allen Wrench and Slide Handle,

Mulkee

HEAVY-DUTY SWIVEL HEAD SHEAR

BALL AND ROLLER BEARINGS

- CUTS ROUND HOLES...SQUARE HOLES...IRREGULAR HOLES
 360° SWIVEL HEAD
 - CUTS UP TO 15' PER MIN.
 CONTINUOUS METAL CURL
 - HEAD ASSEMBLY DESIGNED FOR EASY SERVICING



- Trigger Speed Control lets you change your cutting speed. Start slow when location is critical. Increase speed for long unobstructed cuts
- **Aluminum Gear Case and** Diaphragm supplies greater support for shaft and bearings
- Powerful MILWAUKEE **built Motor**
- **High Strength Impact Resistant Handle**

REPLACEMENT SWIVEL SHEAR HEAD ASSEMBLY NO. 48-08-0500

POWER UNIT





REPLACEMENT ACCESSORIES FOR NO. 48-08-0500

48-44-0150 Center Blade 48-44-0160 Left Blade 48-44-0170 Right Blade

49-08-4121 1 lb. Can "E" Grease 49-96-0070 5/32" Hex Socket Wrench

SPECIFICATIONS

CATALOG NUMBER	CAPACITY STEEL STAINLESS	BLADE WIDTH	VOLTS AC ONLY	AMPS	SPINULE SPEED RPM	SPEED FT./MIN.	MINIMUM RADIUS	WGT. LBS.	WGT. LBS.
6850	18 Ga. (.0478") 20 Ga. (.035	5") .200"	120	3.5	0-2500	15	7"	4	6
6851	Power Unit Only. For use with 48-08	3-0500	120	3.5	0-2500		3/8"x24 S	Spindle	

REPLACEMENT ACCESSORIES FOR **DISCONTINUED SCISSORS HEAD SHEAR 6860**

48-44-0180 Moveable Scissor Blade 49-08-4121 1 lb. Can "E" Grease 49-96-0070 5/32" Hex Socket Wrench 48-44-0190 Stationary Scissor Blade





HEAVY-DUTY VACUUM CLEANERS

OUTSTANDING FEATURES

- POSTIVE WATER SHUT-OFF—On wet/dry machines protects motor from direct exposure to water.
- **HEAVY-DUTY FILTER SYSTEM** For the roughest coarse materials to the finest dust.
- USE AS BLOWER Switch hose from intake to exhaust, for cleaning inaccessible areas.
 - ♦ Models 8925, 8917 and 8912 can not be used as a blower in Canada.

NO. 8925

Stainless 16" Dia. воттом DRAIN VALVE FOR EASY WATER REMOVAL

NO. 8917

Stainless 16" Dia. воттом **DRAIN VALVE** FOR EASY WATER REMOVAL

NO. 8912 Steel 16" Dia.

VACUUM MOTOR DESIGN

Centrifugal blower produces high efficient vacuum and air flow. Models 8911, 8912, 8917, 8925, 8935, 8937, 8940 and 8945 have a two-stage bypass motor for wet/dry operation. They provide discharge of vacuum air from the fan case with a separate system for motor cooling. Clean air is drawn into top of motor and discharged through motor housing vents protecting motor from direct exposure to moisture.

NO. 8911 Steel 16" Dia.

NO. 8965 Steel 14" Dia.











GENERAL SPECIFICATIONS

All models are equipped with 1-1/2" O.D. hose connections, cord with 3-prong grounded plug, 3 vinyl covered holddown clamps and 4-wheel caddie with non-marring wheels.

CAT.			IV. CAP					MAX. AIR FLOW	SEALED SUCTION	OVERALL DIMENSIONS		NET WGT.	SHP. WGT.
NO.	MATERIALS	GAL.	BU.	TANK	VOLTS	AMPS	MOTOR TYPE	CU. FT./MIN.	IN WATER	WIDTH	HEIGHT	(LBS.)	(LBS.)
8925	WET or DRY	15	2	STAINLESS	120	10	2-Stage Bypass	110	105"	19"	36"	53	73
8917	WET or DRY	9	1-1/2	STAINLESS	120	10	2-Stage Bypass	110	105"	19"	32"	52	70
8912	WET or DRY	9	1-1/2	STEEL	120	10	2-Stage Bypass	110	105"	19"	32"	49	71
8911	WET or DRY	9	1-1/2	STEEL	120	8	2-Stage Bypass	87	83"	19"	32"	48	67
8965	WET or DRY	10	1-1/8	STEEL	120	6.2	1-Stage Bypass	97	49"	19-1/2"	35-5/8"	34	49

STANDARD EQUIPMENT

FOR MODEL 8925

FOR MODEL 8917

FOR MODEL 8912

FOR MODEL 8911

Three paper filter bags, cloth filter, gasket and wire frame assembly, wet pick-up conversion pan, swivel connector and canvas store-all tool bag.

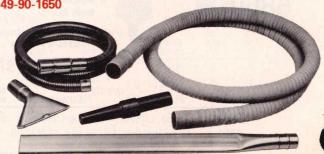
FOR MODEL 8965 - 7 ft. 1-1/2" I.D. vinyl hose, hose adaptor, cloth filter assembly, foam filter sleeve, 3 wheel dolly and three paper filter bags No. 49-90-0301.

WET AND DRY CLEANING KIT 49-90-1670



WET AND DRY CLEANING KIT NO. 49-90-1670 A complete kit of accessories for the maintenance department. Kit consists of 1 each of the following: 49-90-0060, 10 ft. hose; 49-90-0550, major floor tool; 49-90-0580 squeegee shoe; 49-90-0400, 15" crevice tool; 49-90-0600, 14" carpet insert; 49-90-0740, utility nozzle; 49-90-1000, double bend floor rod.

FURNACE CLEANING KIT 49-90-1650



FURNACE CLEANING KIT NO. 49-90-1650 All accessories needed for cleaning furnaces. Kit includes 1 each of the following: 49-90-0020, 10 ft. hose; 49-90-0080, 6 ft. metal hose; 49-90-0410, 27" crevice tool; 49-90-0460, rubber blower nozzle; 49-90-0740, utility nozzle.



HEAVY-DUTY VACUUM CLEANERS

VACUUM MOTOR DESIGN

Model 8931 has a straight-thru motor for dry pick-up. Filters remove dirt from air before reaching the motor. The 8950, 8955 and 8965 have a one-stage bypass motor for wet/dry operation.

SEE PAGES 102, 103, 104 FOR COMPLETE VACUUM ACCESSORIES, ALSO MOTOR HEADS AND DRUM ADAPTER ASSEMBLY.

NO. 8937 Stainless 14" Dia. BOTTOM DRAIN VALVE FOR EASY WATER REMOVAL NO. 8935 Steel 14" Dia. NO. 8931 Steel 14" Dia. NO. 8955 Steel 14" Dia. NO. 8950 Steel 14" Dia.













VACUUM CLEANER DOLLY NO. 49-90-1150 For use with Model 8950 ONLY. (ORDER SEPARATELY)

GENERAL SPECIFICATIONS

All models are equipped with 1-1/2" O.D. hose connections, cord with 3-prong grounded plug, 3 hold-down clamps and (Except for model 8950) caddie with non-marring wheels.

CAT.	FOR	RECOV	/. CAP					AIR FLOW	SUCTION		ISIONS	WGT.	WGT.
NO.	MATERIALS	GAL.	BU.	TANK	VOLTS	AMPS	MOTOR TYPE	CU. FT./MIN.	IN WATER	WIDTH	HEIGHT	(LBS.)	(LBS.)
8937	WET or DRY	4-1/2	3/4	STAINLESS	120	8	2-Stage Bypass	87	83"	17"	28"	36	46
8935	WET or DRY	4-1/2	3/4	STEEL	120	8	2-Stage Bypass	87	83"	17"	28"	35	45
8931	DRY ONLY	of them.	1/2	STEEL	120	7	Straight-Thru	95	112	17"	25"	29	36
♦8955	WET or DRY	10	1-1/8	STEEL	120 AC, 60 Hz	6.2	1-Stage Bypass	97	49"	19-1/2"	38-1/2"	32	44
♦8950	WET or DRY	8	7/8	STEEL	120 AC, 60 Hz	6.2	1-Stage Bypass	97	49"	16-3/4"	22-1/2"	18	25

Not available in Canada.

STANDARD EQUIPMENT

FOR MODEL 8937-Three paper filter bags, wet pick-up conversion pan, cloth filter, gasket, wire frame assembly, swivel connector and wire hose carrier.

FOR MODEL 8935 - Three paper filter bags, wet pick-up pan, cloth filter, gasket, wire frame assembly, swivel connector and wire hose carrier.

FOR MODEL 8931 - Three paper filter bags, cloth filter, gasket, wire frame assembly, swivel connector and hose carrier.

FOR MODEL 8955 - 7 ft. 1-1/2" I.D. vinyl hose, hose adaptor, filter cartridge and 3 wheel dolly. Paper filter bag not required.

FOR MODEL 8950-7 ft. 1-1/2" I.D. vinyl hose, hose adaptor and filter cartridge. Paper filter bag not required.

AUTOMOTIVE KIT 49-90-1660



AUTOMOTIVE KIT NO. 49-90-1660 A kit especially designed for garages doing automotive work. Kit consists of 1 each of the following: 49-90-0060, 10 ft. hose; 49-90-0400, 15" crevice tool; 49-90-0740, utility nozzle.

VACUUM ACCESSORY KIT



VACUUM ACCESSORY KIT NO. 49-90-1800 Accessories for general cleanup applications. Kit consists of 1 each of the following: 49-90-1765, wand; 49-90-1770, crevice tool; 49-90-1775, 6" nozzle; 49-90-1785, 14" squeegee shoe; 49-90-1780, 14" rug shoe; 49-90-1780, master nozzle.

Ulwankee

HEAVY-DUTY VACUUM CLEANER ACCESSORIES

MOTOR HEADS AND DRUM ADAPTER ASSEMBLY



MOTOR HEAD ONLY NO. 8940

The same powerful Motor Head as furnished with Model 8911 with 30' of cord. Requires use of 16" dia. Conversion Pan for wet pickup. Wire Frame Filter Cage, Cloth Filter and Gasket assembly and 16" Dacron Filter Bag required for dry pickup. Order these and all other accessories separately. Unit includes a swivel end connector, No. 49-90-0150. Net weight 14 lbs., Shipping weight 15 lbs.



MOTOR HEAD ONLY NO. 8945

More powerful motor head adapts to all 16" diameter, 9 gallon units and larger for extraduty applications. Same as furnished with models 8912, 8917 and 8925. Maximum air flow is 110 Cu. Ft./Min. with sealed suction water lift of 105". Unit comes with a 30' cord and requires the use of 16" diameter conversion pan for wet pickup. Wire frame filter cage, cloth filter, and gasket assembly and 16" dacron filter bag required for dry pickup. Order these and all accessories separately. Unit includes a swivel end connector, No. 49-90-0150. Net weight 15 lbs., Shipping weight 17 lbs.

DRUM ADAPTER NO. 49-90-1590

Fits your 55 gal. drum. Gasket secures tightly to drum when vacuum is in operation. Adaptable to Motor Head 8940 and 8945 and those on Nos. 8911, 8912, 8917, 8925, previous models 8916, 8921 and 8925. Use 16" dia. accessories. Net weight 10 lbs., Shipping weight 11 lbs.

DOLLY NO. 49-90-1100

For 55 gal. drum. Sturdy steel construction with 4 wheels and long hinged handle. Drum easily tips off or on. Net weight 43 lbs., Shipping weight 45 lbs.



16" DIA CONVERSION PAN REQUIRED FOR WET PICK-UP NO. 49-90-1610



16" DIA. WIRE FRAME FILTER CAGE, CLOTH FILTER AND **GASKET ASSEMBLY** REQUIRED FOR DRY PICK-UP

NO. 49-90-0270 WIRE FRAME FILTER CAGE 16 DIA. NO. 49-90-0260 CLOTH FILTER AND GASKET 16 DIA.



DACRON FILTER REQUIRED FOR DRY PICK-LIP NO. 49-90-0320

Fits over 16" Dia. Cloth Filter Assembly

- VACUUM HOSES — CONNECTORS — ACCESSORIES



CANVAS HOSE 10'

NO. 49-90-0020

Canvas covered, wire reinforced, rubber lined vacuum hose, 1-1/2" ID. Two straight molded cuff ends. Order swivel-end connector separately. *



BLACK CANVAS HOSE 10'

NO. 49-90-0030

Canvas covered, wire reinforced, rubber lined vacuum hose. Strong resilient, 1-1/2" ID with two straight molded cuff ends. Order swivelend connector separately. *



BLACK NEOPRENE HOSE

NO 49-90-0040 15

NO. 49-90-0050 25

Neoprene lined, oil resistant, wire reinforced, 1-1/2" ID with two straight molded cuff ends. Order swivel-end connector separately. *



SWIVEL-END CONNECTOR*

NO. 49-90-0150

Quick connect/disconnect feature for attaching hoses to MILWAUKEE vacuum cleaners, except Model 8950 and 8955. Fits into 1-1/2" ID hoses. Same as furnished with each unit.

One swivel-end connector is furnished as standard equipment with vacuum cleaners 8911, 8912, 8917, 8925, 8931, 8935, 8937 and 8965 and motor heads 8940 and 8945.



STEEL HOSE CONNECTOR

NO. 49-90-0195

Used to connect 1-1/2" hoses.



HOSE ADAPTER

NO. 49-90-0155

Adapts 1-1/2" ID hose to Model 8950 and 8955 Same as furnished with each unit. Not available in Canada.



WIRELESS VINYL HOSE

NO. 49-90-0090 NO. 49-90-0060 10'

NO 49-90-0070 25

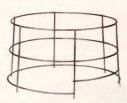
Crushproof multi-flex hose with no wire reinforcement. 1-1/2" ID with two molded cuff ends. Order swivel-end connector or hose adapter separately. *



METAL HOSE 6

NO. 49-90-0080

For cleaning boiler tubes and furnaces. 1-1/4" OD fits into standard 1-1/2" ID hoses.



HOSE CARRIER*

NO. 49-90-0170 FOR 14" TANKS NO. 49-90-0180 FOR 16" TANKS

Ideal for neat safe storage of vacuum hoses. Makes moving from one location to another easier

* NOTE: Hose Carriers will not fit No. 8950 or No. 8955 Vacuum Cleaners.



CANVAS STORE-ALL TOOL POUCH

NO. 49-90-0250

For Models 8911, 8912, 8917, 8921 and 8925. Strong durable vinyl covered canvas pouch... makes toting extra tools easy.

Milwankee

HEAVY-DUTY VACUUM CLEANER ACCESSORIES

DOUBLE BEND FLOOR WAND

NO. 49-90-1000



Built-in swivel connection adapts with compression fitting to the major floor tool. Wand connects to 1-1/2" I.D. hose. Made of chrome plated steel.

MAJOR FLOOR TOOL NO. 49-90-0550

Major Floor Tool with two "quick turn" thumb screws for quick tool changing. Accommodates interchangeable 14" inserts and replacements. Supplied with 49-90-0610 bumper.

14" REPLACEMENT BUMPER FOR MAJOR FLOOR TOOL NO. 49-90-0610



14" BRISTLE SHOD SHOE

NO. 49-90-0560

For Major Floor Tool. For rough floors, large wall and ceiling areas.

14" REPLACEMENT BRUSH STRIPS (2) NO. 49-90-0630



WIDE MOUTH GULPER

NO. 49-90-0540

Ideal for use on bare floors or rugs. 12" cleaning path. Compression Type, fits on Double Bend Floor Wand No. 49-90-1000.



NYLON BRISTLE BRUSH NO. 49-90-0760

Heavy-duty cast aluminum, wide mouth nozzle. 10" cleaning path. Compression Type, fits on Double Bend Floor Wand No. 49-90-1000.



HORSE HAIR BRUSH NO. 49-90-0750

Heavy-duty cast aluminum, wide mouth nozzle. 10" cleaning path. Compression Type, fits on Double Bend Floor Wand No. 49-90-1000.



ASTIC BUMPER NO. 49-90-0720

Replacement for horse hair and nylon bristle brushes.



14" SQUEEGEE SHOE NO. 49-90-0580

Use with Major Floor Tool. For fast drying of washed floors.

14" REPLACEMENT SQUEEGEE BLADES (4) NO. 49-90-0640



14" CARPET INSERT NO. 49-90-0600

For Major Floor Tool. Bottom plate perfectly designed for cleaning rugs, carpeting.



14" FABRIC SHOD ATTACHMENT SHOE

NO. 49-90-0570

Use with Major Floor Tool, Suited for cleaning cement and concrete floors.

14" REPLACEMENT FABRIC STRIPS (2) NO. 49-90-0620



14" FELT SHOD ATTACHMENT SHOE NO. 49-90-0590

Use with Major Floor Tool. For walls and smooth hard floors such as tile, hardwood.



NO. 49-90-1770

Economical, high impact, durable plastic construction. Ideal for cleaning around equipment, behind radiators, hard to reach corners and crevices. Fits 1-1/2" I.D.



HEAVY-DUTY VACUUM CLEANER ACCESSORIES

NOTE: 20" EXTENSION RECOMMENDED FOR USE WITH UTILITY NOZZLE AND ROUND DUST BRUSH. (UTILITY NOZZLE AND ROUND DUST BRUSH MAY ALSO BE **CONNECTED DIRECTLY TO ANY 1-1/2"** I.D. HOSE.)

ALUMINUM 6" UTILITY NOZZLE

NO. 49-90-0740

Taper fit utility and upholstery nozzle. Fits 1-1/2" I.D. hose. 6" cleaning path.

> **CLAMP-ON NYLON BRISTLE BRUSH** WITH BUMPER NO. 49-90-0480

> > Attach directly to utility nozzle.



20" extension with built-in hose end swivel. Used with utility nozzle (49-90-0740) for automotive cleaning. Also desirable when short extension is needed for dust brush attachments (49-90-0730).

3" ROUND DUST BRUSH

NO. 49-90-0730

3" round dust brush with nylon bristles. Fits 1-1/2" I.D. hose.

REPLACEMENT BRUSH INSERT

NO. 49-90-0660

Replacement for round dust brush.

FILTERS, FILTER CAGES, CONVERSION PANS FOR VACUUM CLEANER NOS, 8911, 8912, 8917, 8925, 8931, 8935 and 8937



WIRE FRAME FILTER CAGE, **CLOTH FILTER AND GASKET ASSEMBLY**

Available for both 14" and 16" dia. tanks. The filter assembly acts as a final filter for air leaving tank. To achieve the best possible results, the cloth filter gasket and wire frame must be maintained. Any wear holes or gasket leaks will allow dust and debris to blow through exhaust ports.

NO. 49-90-0290

Wire Frame Filter Cage 14" Dia.

NO. 49-90-0270

Wire Frame Filter Cage 16" Dia.

NO. 49-90-0280

Cloth Filter and Gasket 14" Dia.

NO. 49-90-0260

Cloth Filter and Gasket 16" Dia.



WET PICK-UP **CONVERSION PANS***

NO. 49-90-1620

Wet Pick-Up Conversion Pan 14" Dia. (Standard on Model 8935, 8937)

NO. 49-90-1610

Wet Pick-Up Conversion Pan 16" Dia. (Standard on Models 8911, 8912, 8917 and 8925)

NOT FOR USE ON MODEL NO. 8931 AND 8965 OR PREVIOUS MODEL NO. 8921.



DISPOSABLE PAPER FILTER BAGS

Flame-resistant paper filter bags. *

NO. 49-90-0311 (5 pack) FOR 14" DIA. VACUUM CLEANER * Vac NO. 8965 uses

Bag No. 49-90-0301.

NO. 49-90-0301 (5 pack) FOR 16" DIA. VACUUM CLEANER

NO. 49-90-0350 (5 pack) FOR 16" DIA. VACUUM CLEANER NO. 8925 ONLY.

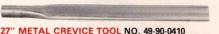
DISPOSABLE PAPER FILTER BAGS NO. 49-90-0331 (5 pack)

Fits all 14" and 16" Vacuum Cleaners, quick and easy to install on vacuum tank. Ideally suited for use when vacuuming extremely fine dust directly into vacuum tank.



DACRON FILTER NO. 49-90-0320

Fits 14" and 16" dia. tanks. The dacron bag is suited for pick-up of medium fine dust as well as coarse sharp material. To be used without paper filter bags. Fits over cloth filter assembly.



For cleaning behind radiators, other hard to reach corners and crevices. Fits 1-1/2" I.D. Hose.



15" METAL CREVICE TOOL NO. 49-90-0400 Fits 1-1/2" I.D. hose

DURABLE PLASTIC CREVICE TOOL

NO. 49-90-1770

Economical, high impact, durable plastic construction. Ideal for cleaning around equipment, behind radiators, hard to reach corners and crevices. Fits 1-1/2" I.D. Hose.



DURABLE PLASTIC 6" UTILITY NOZZLE NO. 49-90-1775

Economical, high impact, durable plastic construction. Fits 1-1/2" I.D. hose for upholstery cleaning and other small jobs.

RUBBER BLOWER NOZZLE

NO. 49-90-0460

For blowing dust and dirt out of cracks and inaccessible areas. Excellent for machinery. Fits 1-1/2" I.D. Hose.

FILTERS FOR VACUUM CLEANER NOS. 8950, 8955 AND 8965 ONLY



WET/DRY PICK-UP CARTRIDGE FILTER

Interchangeable with Cloth Filter Assembly and Foam Filter Sleeve.

NO 49-90-1830 For 8950 and 8955

CLOTH FILTER ASSEMBLY

Use with Foam Filter Sleeve for Dry Pick-Up.

NO. 49-90-0285 For 8950 and 8955. NO. 49-90-0280 For 8965.

SLEEVE

For 8965

NO. 49-90-0770 Motor Filter for 8950 and 8955. NO. 49-90-1820

FOAM FILTER

♦Not available in Canada.

HEAVY-DUTY HEAT GUNS

Milwankee UNLIMITED USES: WHEREVER PORTABLE, FLAMELESS HEAT IS REQUIRED

DOUBLE INSULATED ● HEAVY-DUTY: UNIQUE IMPACT RESISTANT HEATING ELEMENT

APPLICATIONS:

Softens, Molds, Bends, and Forms Plastics Pre-Dries Surfaces for Fast Preparation Softens Caulking, Putty and Plastics Strips Paint, Varnish and Lacquer Repairs Auto Top Vinyl Thaws Frozen Pipes Shrink Fits Plastic Tubing Dries Electric Lines and Cables Removes Tiles, Floor Covering Materials Loosens Overtightened Screws and Joints Welds Plastics, PVC Coated Fabrics and Foils

Plumbers, Painters, Floor Covering Installers, Technicians, Boat Builders, Food Processing, Industry, Mechanics, Contractors, Body Shops, Photographers, Schools, Laboratories

EFFICIENT SOFT AIR VELOCITY

The soft air velocity of MILWAUKEE Heat Guns increases the surface temperature to the required working temperature much faster than conventional hot air heat guns. It also maintains a higher surface temperature, allowing faster completion of any standard commercial or industrial applications.

DUAL TEMPERATURE 8975 570°F and 1000°F



(KIT) **8980**

HEAT GUN KIT

contains No. 8975 Heat Gun, Accessory Assortment No. 49-80-0300 as shown below and Hi-Impact polyethylene Carrying Case No. 48-55-7120.



ROCKER **SWITCH** For off or on.

Rotate rear housing to select temperature ranges from 212°F to 1000°F.

SPECIFICATIONS

CATALOG NUMBER	VOLTS	AMPS	AIR VOLUME CU. FT./MIN.		LGTH. (IN.)	WGT. (LBS.)	WGT. (LBS.)
8975	120	11.6	14.8	Low 570°F/High 1000°F	10-1/8	1.6	2
8977	120	11.6	14.8	212°F to 1000°F	10-1/8	1.6	2
8978	120	12.5	14.8	Low 212°F to High 1100°F	13	1.75	2.5
8980	Same	as 89	75, but wit	h Carrying Case and Accessor	ry Assort	ment	5-1/4

VARIABLE TEMPERATURE 8978 212°F to 1100°F

ACCESSORIES



ACCESSORY ASSORTMENT

NO. 49-80-0300

Includes Nos. 49-80-0292, 49-80-0293, 49-80-0294, and 49-80-0297 to fit most common applications. Fits all 3 heat guns offered by MILWAUKEE.



CARRYING CASE NO. 48-55-7120

Tough, custom molded rustproof, polyethylene case securely holds the 8975 and 8977 heat gun and all 4 accessory nozzles



Heat Adjustment Dial (Numbers 1 through 6) for temperature from 212°F to 1100°F.

MULLIPALIDOR HEAT GUN

flow for more accurate and concentrated heat location without damage to heating

FOR HEAT GUN 8978 ONLY



AIR REDUCTION NO. 49-80-0297

Intensified heat in a specific area soldering



HOOK NOZZLE NO. 49-80-0292

When heat is needed to surround-bending. soldering pipe, shrink ing tubing



NO. 49-80-0293

Deflects air away from glass when stripping paint or softening



AIR SPREADER NO. 49-80-0294

Intensified heat for removing floor coverpaint burning



AIR REDUCTION NO. 49-80-0305

Intensified, spot directed for corners, bending plexiglass,



AIR REDUCTION NO. 49-80-0306

Similar function to 49-80-0305, larger working areas.



AIR REFLECTOR NO. 49-80-0307

Small diameter tubing wires, tubing.



SLIT NO771 NO. 49-80-0308

Intensified air flow for lap welding PVC canvasses and sheets. (Must be used with No. 49-80-0305)

CUTTING NOZZLE NO. 49-80-0309

For cutting styrofoam up to 4" thick.
Straight or curved cuts. (Must be used with nozzle No. 49-80-0305).

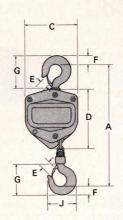
PROFESSIONAL HAND CHAIN HOISTS

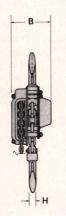


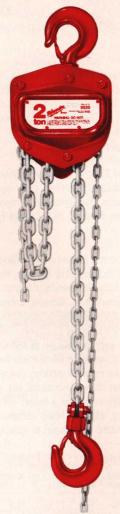
- MECHANICAL LOAD BRAKE
 Provides positive load control and spotting.
- HEAT-TREATED STEEL SPUR GEARING
 Reduces hand chain pull effort. Makes lifting easier.
- COMPACT GEAR HOUSINGS
 Allows use where headroom is limited.
- PERMANENTLY LUBRICATED GEARS AND BEARINGS
 Provide smooth operation and assure long life.

Trovide smooth operation and assure long me.

- THROUGH-HARDENED LOAD CHAIN Provides high strength and wear resistance.
- LATCH-TYPE RIDGED TOP HOOK Standard on all models.







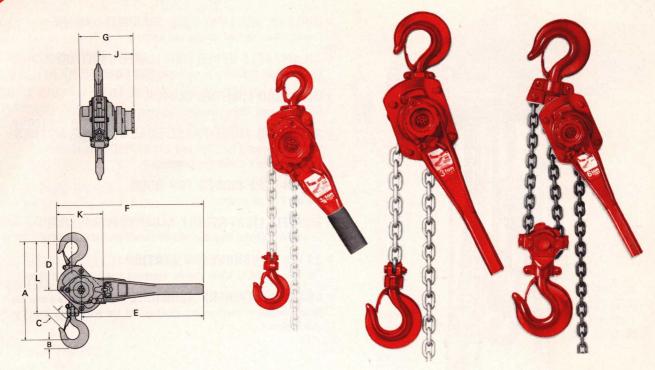
SPECIFICATIONS

	RATED	LIFT .										PULL REQUIRED TO LIFT	FEET OF CHAIN OVERHAUL	APPROXIMATE SHIPPING
CATALOG NUMBER	LOAD (TON)	HEIGHT T (FT.)	A (IN.)	B (IN.)	C (IN.)	D (IN.)	E (IN.)	F (IN.)	G (IN.)	H (IN.)	(IN.)	RATED LOAD (LBS.)	TO LIFT 1 FOOT	WEIGHT (LBS.)
9503	1/2	10	10-1/4	5-7/16	5-7/16	5-1/4	15/16	3/4	3-7/16	1/2	3-1/16	55	32	22
9504	1/2	15	10-1/4	5-7/16	5-7/16	5-1/4	15/16	3/4	3-7/16	1/2	3-1/16	55	32	26
9505	1/2	20	10-1/4	5-7/16	5-7/16	5-1/4	15/16	3/4	3-7/16	1/2	3-1/16	55	32	30
9506	1	10	11-13/16	5-3/4	6-1/4	6	1-1/8	15/16	4	11/16	3-3/4	60	57	26
9507	1	15	11-13/16	5-3/4	6-1/4	6	1-1/8	15/16	4	11/16	3-3/4	60	57	30
9508	1	20	11-13/16	5-3/4	6-1/4	6	1-1/8	15/16	4	11/16	3-3/4	60	57	34
9509	2	10	15	7-7/32	8-7/16	8-1/2	1-3/8	1-1/4	4-15/16	7/8	4-3/4	88	75	46
9513	2	15	15	7-7/32	8-7/16	8-1/2	1-3/8	1-1/4	4-15/16	7/8	4-3/4	88	75	50
9514	2	20	15	7-7/32	8-7/16	8-1/2	1-3/8	1-1/4	4-15/16	7/8	4-3/4	88	75	54
9525	3	10	17-3/4	7-17/32	10-5/8	11	1-7/16	1-5/8	5-27/32	1-11/32	5-9/16	102	83-1/2	82
9516	3	15	17-1/8	7-13/16	10	10	1-9/16	1-9/16	5-7/8	1-3/32	5-3/8	84	95	71-1/2
9517	3	20	17-1/8	7-13/16	10	10	1-9/16	1-9/16	5-7/8	1-3/32	5-3/8	84	95	75-1/2
9518	5	10	22-5/8	6-1/2	11-1/8	9	1-7/8	1-13/16	6-3/4	1-7/16	6-3/4	79	203	77
9519	5	20	22-5/8	6-1/2	11-1/8	9	1-7/8	1-13/16	6-3/4	1-7/16	6-3/4	79	203	87

[†] Hand chain drop is approximately two feet less than lift.

Milwaukee

PROFESSIONAL LEVER HOISTS



- LOW HANDLE EFFORT
 Allows rated load to be lifted with minimum of effort.
- RUGGED STEEL BODY CONSTRUCTION
 Lightweight, but built for years of hard work.
- LATCH-TYPE RIDGED TOP HOOK Standard on all models.

- BUILT IN LOAD BRAKE
 - Provides positive load control and spotting.
- SHORT 360° ROTATING HANDLE
 Permits versatile positioning and excellent maneuverability.
- FREE CHAIN CONTROL

 Reduces set up time for ease of use.

SPECIFICATIONS

CATALOG NUMBER	RATED LOAD (TON)	LIFT HEIGHT (FT.)	A (IN.)	B (IN.)	C (IN.)	D (IN.)	E (IN.)	F (IN.)	G (IN.)	J (IN.)	K (IN.)	L (IN.)	PULL REQUIRED TO LIFT RATED LOAD (LBS.)	APPROXIMATE SHIPPING WEIGHT (LBS.)
9530	3/4	5	11-1/2	61/64	63/64	5-3/4	10-1/4	13-1/8	6-1/8	4-5/32	5-23/32	8-1/4	44	19
9531	3/4	10	11-1/2	61/64	63/64	5-3/4	10-1/4	13-1/8	6-1/8	4-5/32	5-23/32	8-1/4	44	22
9532	3/4	20	11-1/2	61/64	63/64	5-3/4	10-1/4	13-1/8	6-1/8	4-5/32	5-23/32	8-1/4	44	28
9540	1-1/2	5	14-1/4	1-5/16	1-11/32	6-7/8	16-5/32	19-1/4	7-1/4	4-21/32	6-1/2	9-5/8	48	30
9541	1-1/2	10	14-1/4	1-5/16	1-11/32	6-7/8	16-5/32	19-1/4	7-1/4	4-21/32	6-1/2	9-5/8	48	35
9542	1-1/2	20	14-1/4	1-5/16	1-11/32	6-7/8	16-5/32	19-1/4	7-1/4	4-21/32	6-1/2	9-5/8	48	44
9545	3	5	18-1/2	1-5/8	1-25/32	8-5/8	16-5/32	20-1/4	8-15/32	5-1/8	8-9/32	12-3/4	75	50
9546	3	10	18-1/2	1-5/8	1-25/32	8-5/8	16-5/32	20-1/4	8-15/32	5-1/8	8-9/32	12-3/4	75	59
9547	3	20	18-1/2	1-5/8	1-25/32	8-5/8	16-5/32	20-1/4	8-15/32	5-1/8	8-9/32	12-3/4	75	75
9548	6	5	24-7/16	2-9/64	1-57/64	10-1/2	16-5/32	22	8-15/32	5-1/8	10-1/4	14-3/4	82	77
9549	6	20	24-7/16	2-9/64	1-57/64	10-1/2	16-5/32	22	8-15/32	5-1/8	10-1/4	14-3/4	82	128

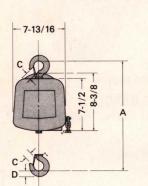
WARNING: MILWAUKEE lifting tools are not to be used for lifting, supporting or transporting people, nor for lifting loads over people. MILWAUKEE does not cover freight and/or labor for inspection and testing of professional lifting tools (hoists) that are found not to be valid warranties. Valid warranties must be substantiated by the discovery of defective material and/or workmanship.

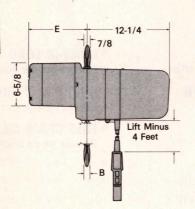
PROFESSIONAL ELECTRIC CHAIN HOISTS

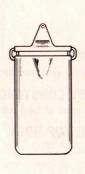
Duty Service Classification—H3, on time up to 25%* of work period. *3 phase on time up to 33% of work period.



- BUILT-IN, MULTIPLE-DISC, MAGNETIC BRAKE Provides positive load holding and spotting.
- ADJUSTABLE UPPER AND LOWER LIMIT SWITCHES
 For maximum flexibility in regulating load travel.
- OVERLOAD LIMITING CLUTCH
 Guards against lifting damaging overloads while operating hoist.
- SINGLE OR THREE-PHASE DUAL VOLTAGE MOTORS
 Choose between 115/230V and 230/460VAC units to meet your operation's power requirements.
- LATCH-TYPE RIDGED TOP HOOK Standard on all models.
- RUGGED, LIGHTWEIGHT ALUMINUM HOUSING Corrosion-resistant. Reduced weight allows greater portability.
- 24-VOLT PUSHBUTTON STATION
 Fits user's hand to allow thumb, trigger or two-handed operation.
- CHAIN CONTAINERS AVAILABLE
 Recommended to keep surplus chain out of the work area. See chart below.







CHAIN CONTAINERS

CHAIN CONTAINER CATALOG NUMBER
48-12-0111
48-12-0112
48-12-0113

SPECIFICATIONS

CATALOG NUMBER	RATED LOAD (TON)	LIFTING SPEED (FT./MIN.)	LIFT HEIGHT † (FT.)	A (IN.)	B (IN.)	C (IN.)	D (IN.)	E (IN.)	H.P.	PHASE	VOLTAGE (AC)	AMPS AT LOW VOLTAGE	REEVING	APPROX. SHIPPING WEIGHT (LBS.)
♦9560	1/2	16	10	18	3/4	1	1	9	1/2	SINGLE	115/230	9.8	SINGLE	79
♦9561	1/2	16	15	18	3/4	1	1	9	1/2	SINGLE	115/230	9.8	SINGLE	85
♦9562	1/2	16	20	18	3/4	1	1	9	1/2	SINGLE	115/230	9.8	SINGLE	103
♦9565	1	16	10	18	3/4	1	1	10-1/2	1	SINGLE	115/230	16.0	SINGLE	94
♦9566	1	16	10	18	3/4	1	1	8-5/8	1	THREE	230/460	3.3	SINGLE	94
♦9567	1	16	15	18	3/4	1	1	10-1/2	1	SINGLE	115/230	16.0	SINGLE	97
♦9568	1	16	20	18	3/4	1	1	10-1/2	1	SINGLE	115/230	16.0	SINGLE	103
♦9570	2	8	10	22	7/8	1-1/8	1-1/8	10-1/2	1	SINGLE	115/230	16.0	DOUBLE	103
♦9571	2	8	10	22	7/8	1-1/8	1-1/8	8-5/8	1	THREE	230/460	3.3	DOUBLE	103
♦9572	2	8	15	22	7/8	1-1/8	1-1/8	10-1/2	1	SINGLE	115/230	16.0	DOUBLE	110
♦9573	2	8	20	22	7/8	1-1/8	1-1/8	10-1/2	1	SINGLE	115/230	16.0	DOUBLE	118

◆Not available in Canada.

† Pushbutton cable length: four feet less than lift.

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Milwankee

PROFESSIONAL ELECTRIC HOISTS

IGHTWEIGHT MODELS—STANDARD 10 FT.LIFT

VALUE PACKED FEATURES —

- UPPER AND LOWER LIMIT SWITCH Regulates overall load travel.
- LATCH-TYPE SWIVEL HOOK
- ALL BALL BEARING MOTORS
- RUGGED, LIGHTWEIGHT ALUMINUM HOUSING For greater portability.
- FOR APPLICATIONS NOT EXCEEDING 10% ON TIME PER HOUR

9550 — 500 LB. ELECTRIC CHAIN HOIST

- BUILT-IN DISC BRAKE Provides positive holding and spotting.
- CHAIN CONTAINER AVAILABLE Recommended to keep surplus chain out of the work area.

9555 — 500 LB. ELECTRIC CABLE HOIST

- UPPER LIMIT SWITCH Regulates upward load travel.
- 1/8" STEEL CABLE

SPECIFICATIONS

CATALOG NUMBER	RATED LOAD (TON)	LIFTING SPEED (FT./MIN.)	LIFT HEIGHT † (FT.)	REEVING	LIFTING MEDIUM	H.P.	PHASE	VOLTAGE (AC)	AMPS	APPROXIMATE SHIPPING WEIGHT (LBS.)
♦ 9550	1/4	8	10	DOUBLE	CHAIN	1/6	SINGLE	115	3	27
♦9555	1/4	10	10	DOUBLE	CABLE	1/6	SINGLE	115	3	21
ANIat avail	oble in Can	nda								

PROFESSIONAL ADJUSTABLE TROLLEYS







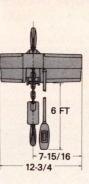
- CAN BE USED WITH ANY MILWAUKEE MANUAL OR ELECTRIC HOIST
 - Provides flexibility for a wide range of material handling applications.
- FULLY ADJUSTABLE Fits most standard and wide-flange I-beams.
- PRECISION WHEELS Roll heavy loads with ease.
- PERMANENTLY SEALED PRECISION BALL BEARINGS Prelubricated sealed bearings for long life and reduced maintenance.

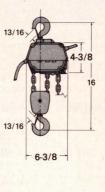
SPECIFICATIONS

CATALOG NUMBER	RATED	RATED I-BEAM, LOAD HEIGHT T (TON) (INLB./FT.)		I-BEAM	MINIMUM	WHEEL TREAD	CLEARANCE DIMENSIONS								APPROXIMATE SHIPPING
	LOAD		WIDTH ♦ (INS.)	RADIUS (INS.)	DIAMETER (INS.)	A (INS.)	B * (INS.)	C (INS.)	D (INS.)	E * (INS.)	F * (INS.)	G (INS.)	M (INS.)	WEIGHT (LBS.)	
9610	1/2	4"-10#	2.66-4.66	36	2-1/4	4.13	3.92	1.26	8.31	.87	.58	.13	7.68	14	
9620	1	5"-12#	3.00-5.00	48	2-3/4	4.57	3.47	1.38	8.74	1.35	.50	.13	8.70	23	
9640	2	6"-18#	3.33-6.00	60	4-3/8	6.30	4.65	1.77	10.47	.97	.60	.13	12.13	52	
9660	3	8"-20#	4.00-6.25	60	4-1/4	6.31	4.62	2.20	11.41	1.56	.75	.18	12.05	60	
9665	5	10"-24#	4.66-7.00	60	4-3/8	6.77	5.41	2.56	13.98	1.66	.89	.18	12.95	96	

† American Standard I-beam.

WARNING: MILWAUKEE lifting tools are not to be used for lifting, supporting or transporting people, nor for lifting loads over people. MILWAUKEE does not cover freight and/or labor for inspection and testing of professional lifting tools (hoists) that are found not to be valid warranties. Valid warranties must be substantiated by the discovery of defective material and/or workmanship.







Milwauke

CHAIN CONTAINER For 9550

500 lbs

[†] Pushbutton cable length: four feet less than lift.

Dimensions based on minimum size I-beam. Minimum—maximum adjustable width of trolley.

MILWAUKEE ELECTRIC TOOL CORPORATION

ORPORATE OFFICE: 13135 W. LISBON RD. • BROOKFIELD, WI 53005

PHONE (RECEPTIONIST): (414) 781-3600

FAX: (414) 781-3611

MANUFACTURING FACILITIES:

BROOKFIELD, WISCONSIN PEWAUKEE, WISCONSIN JACKSON, MISSISSIPPI **BLYTHEVILLE, ARKANSAS**

CANADIAN SUBSIDIARY:

SCARBOROUGH, ONTARIO Phone (416) 439-4181 FAX 416-439-6210

DISTRIBUTION CENTER:

MILWAUKEE ELECTRIC TOOL CORPORATION **OLIVE BRANCH, MISSISSIPPI**

FAST FAX DIRECT TO ORDER ENTRY (414) 781-3611

DIRECT DIAL

ORDER ENTRY PERSONNEL

ORDER ENTRY AND ORDER INQUIRY

(414) 783-8640 (414) 783-8641

DIRECT DIAL

PRODUCT SERVICE PERSONNEL

PRODUCT SUPPORT, WARRANTY AND TECHNICAL INFORMATION

(414) 783-8642

INDIVIDUAL SERVICE PARTS LISTS FOR MILWAUKEE PRODUCTS ARE AVAILABLE UPON REQUEST, AT NO CHARGE.

TO PROPERLY SUPPLY A CORRECT SERVICE PARTS LIST, REQUEST NEEDS TO CONTAIN THE CATALOG NUMBER AND SERIAL NUMBER OF THE PRODUCT.

MILWAUKEE BRANCH OFFICES/SERVICE CENTERS

ARIZONA

PHOENIX 85004 405 E. Watkins St. (602) 256-7210 FAX 602-495-9563

CALIFORNIA

ANAHEIM 92801 1130 N. Magnolia St. (714) 827-3970 (213) 624-7615 (213) 860-0349 FAX 714-220-0817

S. SAN FRANCISCO 94080 179 Utah Ave. (415) 583-8484 S.F.: (415) 761-2851 FAX 415-583-7330

COLORADO

DENVER 80219 2650 W. Second Ave. (303) 922-1163 FAX 303-922-0013

FLORIDA

MIAMI 33122 8101 N.W. 33rd St. (305) 592-0442 FAX 305-592-6872

GEORGIA

(Atlanta) CHAMBLEE 30341 2381 John Glenn Dr. (404) 455-7300 FAX 404-454-7493

ILLINOIS

(Chicago) **NILES 60714** 5629 Howard St. Chicago: (312) 539-9173 Niles: (708) 647-8407 FAX 708-647-6694

LOUISIANA

(New Orleans) HARAHAN 70123 5610 Jefferson Hwy. (504) 733-8543 FAX 504-734-1027

MASSACHUSETTS

(Boston) **NEWTON 02158** 143 California St. (617) 244-4483 FAX 617-964-3316

MICHIGAN

(Detroit) **AUBURN HILLS 48326** 1120 Doris Rd. (313) 373-3800 FAX 313-373-3565

MINNESOTA

(Minneapolis) **BLOOMINGTON 55435** 4350 W. 78th St. (612) 835-4910 FAX 612-835-0317

MISSOURI

KANSAS CITY 64120 1506 N. Topping (816) 241-7300 FAX 816-483-9454

NEW YORK

(New York) **WOODSIDE 11377** 27-07 Brooklyn-Queens **Expressway West** N.Y.: (718) 721-5151 N.J.: (201) 622-7752 FAX 718-278-8790

OHIO

(Cincinnati) SHARONVILLE 45241 11909 Tramway Dr. (513) 733-3334 FAX 513-733-3470

CLEVELAND 44125 7600 Wall St. (216) 524-8040 FAX 216-524-7222

PENNSYLVANIA

(Philadelphia) **BROOMALL 19008** 388 Reed Rd. (215) 544-5544 FAX 215-543-5064

CALLEODNIA (Continu

TEXAS

DALLAS 75247 400 W. Mockingbird Lane (214) 637-4820 FAX 214-631-4521

HOUSTON 77007 4801 Katy Freeway (713) 861-4671 FAX 713-861-6330

WASHINGTON

SEATTLE 98108 5419 Maynard Ave., S. (206) 762-8430 FAX 206-762-9153

WISCONSIN

(Milwaukee) **BROOKFIELD 53005** 4057 N. 128th St. (414) 781-0951 FAX 414-781-8651

MILWAUKEE AUTHORIZED PORTABLE ELECTRIC TOOL SERVICE STATIONS—USA

BIRMINGHAM 35203 Alabama Jack Co., Inc., 1140 5th Ave. BIRMINGHAM 35233 Power Tool Service, Inc., 1113 Fourth Ave., S. DECATUR 35601 Power Tool Supply & Repair, 1717 Creighton Ave.	(205) 251-8156 (205) 323-4311 (205) 350-0079	BURBANK 91504 Rodman & Co., 2823 N. San Fernando Blvd. CAMPBELL 95008	(213) 749-6441 (818) 846-9494 (408) 866-9266
HUNTSVILLE 35810 Tool Service, 4214 Oakwood Ave. MOBILE 36893 Tool Smith Co., Inc., 3675 Government Blvd.	(205) 539-5604 (205) 661-0404	CANOGA PARK 91304 Spark Tools, 7841 Alabama Ave. #17 CONCORD 94520 Electric Euro Service, 1913 Salvio St.	(818) 884-6821 (415) 687-1442
MONTGOMERY 36104 M & M Electric Motor Serv., 674 Sputh McDonough St.	(205) 264-8485	CULVER CITY 90230 Westwood Power Tool Co., 4824 S. Sepulveda Blvd. EL CAJON 92020 . Vanguard Ind. Tool & Supply, 435 W. Bradley Ave., Suite A	(213) 870-8088 (619) 588-2882
ANCHORAGE 99503 Alaska Tool & Equipment Service, 3207 Artic Blvd. FAIRBANKS 99706 Fairbanks Aero Services, Phillips Field	(907) 562-6151 (907) 479-6666	EUREKA 95501 Electric Tool Repair, 437 Henderson St. EUREKA 95501 Senn Electric, 2104 4th St.	(707) 442-4267 (707) 443-0416
ARIZONA LAKE HAVASU CITY 86403 A & B Electric Motors. 2030 Holly Ave.	(602) 453-3185	FRESNO 93721 Kimmerle Bros. Inc., 337 M St. FRESNO 93727 Stop Supply Inc., 5780 E. Shields	(209) 233-1278 (209) 294-9000
MESA 85204 East Valley Tool & Equip. Serv., 835 E. Southern Ave., #4 PHOENIX 85009 Glendale Industrial Supply, 2224 N. 23rd Ave.	(602) 892-6163 (602) 254-4666	GRASS VALLEY 95945 . Freddy & Son Pro Service Center, 540 East Main St. NORTH HIGHLANDS 95660 . A Y Tool & Equip. Repair, 4554 #B Roseville Rd. LANCASTER 93534 Valley Construction Supply, 45346 N. Trevor	(916) 273-6321 (916) 348-0361 (805) 984-5074
TUCSON 85714 Mac's Mining & Construction Supply, 1780 E. Benson Hwy. TUSCON 85714 Mechanics Tool Service, 1301 E. Apache Park Place	(602) 889-1100 (602) 889-8484	LOS ANGELES 90023 Minit Tool Co., 3026 E. Olympic Blvd. MODESTO 95351 Stanislaus Electric Motor Works, 504 River Road	(213) 264-7006 (209) 523-8269
TUCSON 85719 Western Tool Inc., 702 S. Campbell ARKANSAS	(602) 884-0504	NORTH HOLLYWOOD 91605 Bucknall Power Tool Service, 11910 Vose St. OCEANSIDE 92054 Power Source, 1555 S. Hill St.	(818) 765-0228 (619) 433-6600
HOT SPRINGS 71901 Arkansas Tool Service, Inc., 711 Belding LITTLE ROCK 72209 Air Power, Inc., 7123 I-30, Suite 41	(501) 321-9851 (501) 565-4900	OXNARD 93030 Electric Motor Service, 200 E. 5th St. PALM SPRINGS 92264 Lanco Tool & Hardware Inc., 605 Williams Rd.	(805) 483-4233 (619) 323-5655
CALIFORNIA 110 BAKERSFIELD 93308 Electropower Inc., 3736 Gilmore Ave.	(805) 322-1586	RANCHO CUCAMONGA 91730 HCS Construction Supplies, 10411 26th St.	(714) 987-0094 (Continued)

MILWAUKEE AUTHORIZED PORTABLE ELECTRIC TOOL SERVICE STATIONS—USA (Continued)

	BLE ELECTRIC	TOOL SERVICE STATIONS—USA (Contin	iued)
CALIFORNIA (Continued)	(040) 527 5404	ILLINOIS (Continued) SPRINGFIELD 62701 R. W. Bradley Supply Co., 403-05 N. Fourth St.	(247) 520 0420
RED BLUFF 96080 Red Bluff Industrial Electric, 455 Monroe St. SAN DIEGO 92111 Primo Tool Service, 4666 Mercury St.	(916) 527-5104 (619) 268-8897	SPRINGFIELD 62701 A. W. Bradley Supply Co., 403-05 N. Fourth St. SPRINGFIELD 62702 James Machinery, Inc., 223 N. MacArthur Blvd.	(217) 528-8438 (217) 522-9115
SAN FRANCISCO 94103 Kimmerle Bros. Inc., 226 11th St.	(415) 431-1163	INDIANA	(217) 322-3113
SAN FRANCISCO 94107 Viking Tool Repair, 80 Missouri St.	(415) 431-3499	EVANSVILLE 47711 Plumbing & Industrial Supply, 2220 Highway 41 North	(812) 423-6256
SAN JACINTO 92383 Hemet Valley Tool, 1301 S. State St.	(714) 654-1034	FORT WAYNE 46805 Wagner Electric of Fort Wayne, 3610 N. Clinton St.	(219) 484-5532
SAN LEANDRO 94577 Power Tool & Saw Service, 883 San Leandro Blvd.	(415) 569-5111	FORT WAYNE 46825 Mill Supplies, Inc., 5105 Industrial Road at Ley Road	(219) 484-8566
SAN LUIS OBISPO 93401 J.P. Tool Repair, 3440 Sacramento Dr.	(805) 544-7152	HAMMOND 46325 C.A. Stephan, Inc., 3600 Calumet Ave.	(219) 932-7120
SAN MARCOS 92069 Pro-Tek Tool Repair, 215 Pacific St., #111	(619) 471-4800	INDIANAPOLIS 46203 Anderson Bros. Tool Repair, 3531 Southeastern Ave.	(317) 356-6381
SANTA BARBARA 93101 Buena Tool Co., 422 Laguna St.	(805) 963-3885	INDIANAPOLIS 46219 J & J Tool Repair, Inc., 2811 N. Webster Ave.	(317) 547-3411
SANTA CLARA 95050 General Electric Tool Repairs, 364 Martin Ave. SANTA FE SPRINGS 90670 Kimmerle Bros. Inc., 12060 Florence Ave.	(408) 727-4454 (213) 946-6771	LA PORTE 46350 Kor-It Sales, 2045 N. County Road, 150 E.	(219) 326-1851
SANTATE SI MINGS 50070 Kilililiene bios. Ilic., 12000 Florence Ave.	(714) 523-1560	IOWA	
SANTA MONICA 90404 Anry Company, 2834 Colorado Ave., No. 25	(301) 828-7973	CEDAR RAPIDS 52402 . City Sply Tools & Fasteners, 2127 N. Town Lane, N.E.	(319) 395-0991
SANTA ROSA 95403 H & V Tool Repair, 1808 Empire Industrial CT. #D	(707) 528-1111	CEDAR RAPIDS 52404 Jims Appliance Service, 901 Ninth St. S.W. DAVENPORT 52802 Five Cities Tool Service Inc., 921 S. Rolff	(319) 364-0277 (319) 322-7068
SIMI VALLEY 93065 Simi Tools & Repairs, 729 E. Los Angeles Ave.	(805) 584-8665	DES MOINES 50309 Puckett Tools & Fasteners, 841 11th St.	(515) 244-4189
STOCKTON 95205 A & A Tool Rentals, 2911 E. Fremont St.	(209) 948-9500	DES MOINES 50309 Stetson Building Products, 510 S.W. 9th St.	(515) 243-6286
TORRANCE 90502 Universal Tool Service, 21804 S. Vermont Ave.	(213) 328-6742	DES MOINES 50314 The Tool Hospital, 1523 Second Ave.	(515) 282-3323
VISALIA 93291 Continental Air Tool, 1226-C Mineral King	(209) 651-1100	DES MOINES 50317 Electrical Eng. & Equip. Co., 1808 Delaware St.	(515) 282-0431
WHITTIER 90602	(213) 698-3714 (916) 673-3450	DES MOINES 50317 lowa Industrial Products Inc., 2600 Delaware	(515) 265-4281
COLORADO	(910) 0/3-3450	IOWA CITY 52246 . Electric Motors of Iowa City, 1518 Highway 1 West	(319) 354-4040
AVON 81620 Tool Clinic, 41000 Hwy. 6, Bldg. 3, Unit 3	(303) 949-6282	SIOUX CITY 51101 H & B Electric, 507 Iowa St.	(712) 255-1836
BOULDER 80301 Rental City Inc., 5401 Pearl Parkway	(303) 449-2050	KANSAS	
COLORADO SPRINGS 80905 Central Colorado Tool Serv., 525 W. Colorado Ave.	(303) 635-8615	GARDEN CITY 67846 Midwest Electric, Inc., 1620 Buffalo Jones Ave.	(316) 275-6306
DELTA 81416 J.C. Electric, 1565 Hwy. 50	(303) 874-5608	SALINA 67401 Mid-Kansas Tool Repair, 314 W. Cloud	(913) 825-6287
FORT COLLINS 80524 A-Z Power Equipment Center, 1540 Riverside Dr.	(303) 482-9913	TOPEKA 66608	(913) 232-7731
FORT COLLINS 80524 Center Rental and Sales, 1429 E. Mulberry St.	(303) 482-9999	WICHITA 67213 Duntz Tool Supply, Inc., 1831 Southwest Blvd.	(316) 942-0036
GRAND JUNCTION 81501 Professional Power Tool Service, 2420 E. Main	(303) 242-1224	KENTUCKY IFYINGTON 40505 The Teel Heavited 1127 Commercial De-	(000) 255 4704
CONNECTICUT		LEXINGTON 40505 The Tool Hospital, 1127 Commercial Dr. LEXINGTON 40508 City Electric Motor Shop, 631 Kennedy Rd.	(606) 255-4781 (606) 254-5581
BERLIN 06037 Portable Power Tool Repair, Inc., 873 Farmington Ave.	(203) 828-8149	LOUISVILLE 40217 Bailey Tools & Supply, Inc., 1418 South Shelby St.	(502) 635-6348
EAST HARTFORD 06108 Heldmann Tool Supply, Ltd., 75 Charles St.	(203) 289-2727	LOUISVILLE 40217 Tool Repair Service, 1200 Goss Ave.	(502) 635-6888
NORTH HAVEN 06473 Master Industrial Supply, 355 Sackett Point Rd.	(203) 281-0550	PADUCAH 42001 Warden Electric Co., 604 N. 7th St.	(502) 443-4622
DELAWARE		LOUISIANA	
MILFORD 19963 Aertech Inc., #7 Marshall St.	(302) 422-8155	BATON ROUGE 70816 Tiger City Enterprises, Inc., 10715 Cherry Hill Ave.	(504) 293-3567
FLORIDA		BATON ROUGE 70895 The Tool Shed, Inc., 7835 Tom Dr.	(504) 926-6500
CORAL SPRINGS 33076 Sy's Supplies, 11230 Wiles Rd.	(305) 755-7711	HARAHAN 70123 MSC/Service Tool, 5480 Mounes St.	(504) 733-4744
DAYTONA BEACH 32117	(904) 253-5815	NEW ORLEANS 70153 Beerman Precision Inc., 4206 Howard Ave.	(504) 486-9391
FORT LAUDERDALE 33334 Broward Tool Repair, 3547 N. Dixie Hwy. HOLLYWOOD 33023 National Tool Supply, 5725 W. Hallandale Beach Blvd.	(305) 566-4114 (305) 963-7222	SHREVEPORT 71129 Mac's Power Tool Repair, 5023 Flournoy Lucas Rd.	(318) 688-7474
JACKSONVILLE 32205 . N. Florida Machinery & Tool, 230-B Edgewood Ave. S.	(904) 387-4455	SHREVEPORT 71101 Tench Electric Motor Works Inc., 1616 Market St.	(318) 221-8315
LAKE WORTH 33461 Allied Tool Repair Inc., 1130 N. G Street	(305) 585-2113	SULPHUR 70663 Joe's Electric Power Tools, 808 E. Carlton St.	(318) 527-5085
LARGO 33540 Jim & Slim's Tool Supply Inc., 13065 S. Belcher Rd.	(813) 535-3363	MAINE	
MELBOURNE 32901 Stebbins Hardware, Inc., 405 E. New Haven Ave.	(407) 723-6434	BANGOR 04401 N.H. Bragg & Sons, 92 Perry Road	(207) 947-8611
MIAMI 33150 Skyproducts, 10035 N.W. 7th Ave.	(305) 759-8665	HOULTON 04730	(207) 532-2211 (207) 782-7017
MIAMI 33157 Miami Discount Tool & Hardware Inc., 10890 SW 186th St.	(305) 235-1553	PRESQUE ISLE 04769 Welding Supply Co., 46 Industrial St.	(207) 764-6511
MULBERRY 33860 E & W Tool Supply, Inc., Mid-Florida Industrial Park	(813) 425-3077	WESTBROOK 04092 East Coast Tool Service, 25 Bridge St.	(207) 856-6353
NORTH FORT MYERS 33903 Preshers Servicenter, 1349 Pondella Road	(813) 574-2540	MARYLAND	(201) 000 000
OAKLAND PARK 33334 I.M.A. Tool Distributor, 211 E. Oakland Park Blvd.	(305) 566-2117	BALTIMORE 21224 Brock Tool Co., 1200 66th Street	(410) 483-4300
ORLANDO 32806 Florida Electric Motor Service, 1128 Atlanta Ave. PENSACOLA 32501 . Escambia Elec. Motor Sales & Service, 1101 W. Main St.	(407) 425-8160 (904) 432-1577	FREDERICK 21701 M & M Electric Motor Repair, 205 Bucheimer Rd., Box 337	(301) 663-1100
PENSACOLA 32501 M & W Electric Motor Service, 1250 Barrancas Ave.	(904) 433-0400	GAITHERSBURG 20876 Standard Supplies Inc., 17 Chestnut St., Box 550	(301) 948-2690
TAMPA 33603 Gator Repair, 5128 Nebraska Ave.	(813) 234-8831	HAGERSTOWN 21740 Apparatus Repair & Engineering, Inc., 90 W. Lee St.	(301) 739-8285
TAMPA 33609 Mylee Tool Supply, Inc. 2905 W. Kennedy Blvd.	(813) 877-0509	TAKOMA PARK 20012 Turner Electric Co., 201 Ethan Allen Ave.	(301) 270-6800
VERO BEACH 32960 Atco Tool Supply, Inc., 2456 U.S. 1	(407) 569-0326	UPPER MARLBORO 20772 A.B.K. Tool Repair & Sply., 7980 F Penn Randall Pl.	(301) 568-2629
GEORGIA		MASSACHUSETTS	
ALBANY 31701 Air Specialists, Inc., Hwy. 82 West	(912) 435-0084	DANVERS 01923 Danvers Hardware, 61-65 Maple St.	(508) 777-3719
ATLANTA 30313 Power Tool Service Co., 249 Simpson St. N.W.	(404) 524-0202	DORCHESTER 02122 Renner Tool & Supply, Inc., 305 Freeport St., Box 132	(617) 436-8045
COLUMBUS 31904 Phenix Saw Works, 5101 14th Ave.	(404) 327-5671	EVERETT 02149 Panda Electrical Service, 165 Main St.	(617) 389-1442
MACON 31202 Bass Tool & Industrial Supply, 1034 Second St.	(912) 745-1117	FALL RIVER 02721 Burns Power Tools, 350 Mariano S. Bishop Blvd. FITCHBURG 01420 Shepard & Parker Inc., 18 Lincoln St.	(617) 675-0381 (508) 343-3907
SAVANNAH 31402	(912) 234-2271 (912) 242-3910	HOLYOKE 01040 Reliance Electric Service, 573 S. Canal St.	(413) 533-3557
GUAM Miller Hardware Co., 104 S. Lee St.	(312) 242-3310	NORWELL 02061 J & B Power Equipment Co., 5 Grove St.	(508) 878-1103
TAMUNING 96931 Standard Plytrade Corp., Bldg. 1755 Route 16, Harmon	(671) 640 1521	PLYMOUTH 02360 Colony Tool Supply, 130-1 Camelot Dr.—Camelot Park	(508) 746-2219
HAWAII	(671) 649-1521	STOUGHTON 02072 Kalman Electric Motor, Inc., 807 Huffman St.	(919) 275-6124
AIEA 96701 Wiki Wiki Power Tool, 99-1265B Halawa Valley St.	(808) 486-1955	WALTHAM 02254 Pro Tools, Inc., 1353 Main St.	(617) 899-0790
HILO 96720	(808) 935-0875	WOBURN 01888 Star Sales & Distr. Corp., 29 Commerce Way	(617) 933-8830
HONOLULU 96819 A.L. Kilgo Co. Inc., 180 Sand Island Road	(808) 832-2200	MICHIGAN	(242) 747 0000
HONOLULU 96819 F.K.S. Rentals & Sales, 653 Kakoi St.	(808) 836-2961	ANN ARBOR 48104 McCally Tool Service, 2455 S. Industrial, Suite B	(313) 747-8332
KAHALUI 96732 Fastening Specialties Maui Inc., 355 Hukilike St. #123/124	(808) 871-6217	DETROIT 48203 Re-Nu Electric Co., 20163 John R. St. DETROIT 48234 Butki Saw Tool Co., 19015 Van Dyke Ave.	(313) 366-1570
KAHULUI 96732 Maui Power Tool Service, 305 Dairy Road	(808) 877-3440	DETROIT 48234 Butki Saw 1001 Co., 19015 Van Dyke Ave. DETROIT 48234 Electric Tool & Service, 19442 Conant Ave.	(313) 366-6775 (313) 366-3830
KAILUA-KONA 96740 Junior's Tools, Inc., Hawaii, 74 5488 Kaiwi St.	(808) 329-2081	GRAND RAPIDS 49509 J. T. Hoeksema Tool Service, 2499 28 St. S.W.	(616) 538-1870
KONA 96740 Fastening Specialties Maui Inc., 73-5574 Maiaust 9A & 10B	(808) 326-1500	KALAMAZOO 49001 Kalamazoo Electric Motors, 658 E. Vine	(616) 345-7802
LIHUE 96766 Toolmaster Rental & Supply, 3061 Aukele St.	(808) 245-8885	KINGSFORD 49801 Northern Tool & Supply Inc., 1021 Pyle Drive	(906) 774-3991
IDAHO	(200) 275 4422	MIDLAND 48640 Mid-Michigan, 680 Poseyville Rd.	(517) 835-6014
BOISE 83706 K C Supply, 5103 Irving COEUR d' ALENE 83814 Coeur d' Alene Power Tool, 451 Cherry Ln.	(208) 375-1133	PORT HURON 48060 Beard Campbell Co., 2975 Lapeer Rd.	(313) 985-7105
IDAHO FALLS 83401	(208) 667-1158 (208) 529-3665	TRAVERSE CITY 49685 Davis Electric, Inc., 1131 Hastings St.	(616) 947-9860
IDAHO FALLS 83405 Ideal Industrial Hardware, 760 W. Broadway, Box 51595	(208) 522-7082	WIXOM 48393 Northwest Tool Supply, Inc., 30270 Beck Rd.	(313) 669-4040
LEWISTON 83501 Hahn Supply Co., 2101 Main St.	(208) 743-5487	MINNESOTA	(240) 000 0074
ILLINOIS		DULUTH 55806 Diamond Drilling Supply Co., 2916 W. First St.	(218) 628-3671
ALSIP 60658 Authorized Factory Tool Repair, Inc., 4825 W. 128th Pl.	(708) 422-5161	GRAND RAPIDS 55744 The Motor Shop, 17 County Road 63 ROCHESTER 55904 Thomas Tool & Supply, Inc., 1712 3rd Ave. S.E.	(218) 326-4091 (507) 281-3786
BLOOMINGTON 61701 Electric Motor Repair, 1106 E. Bell St.	(309) 827-4691	ST. PAUL 55108	(612) 646-1808
CENTRALIA 62801 The Travelectric Company, Inc., 312 North Poplar St.	(618) 533-4477	WILLMAR 56201 Central Contractor Supply, 605 Lakeland N.E.	(612) 235-5151
DECATUR 62525 Miller Industrial Supply Co., 1695 N. 21st St.	(217) 428-7787	WILLMAR 56201 . Northern States Supply Inc., P.O. Box 1057—Industrial Park	(612) 235-0555
DIXON 61021	(815) 284-7781	WINONA 55987 Lackore Electric Motor Repair, Inc., 180 West 2nd St.	(507) 452-3103
ELK GROVE VILLAGE 60007 Brock Tool Co., 1475 Louis Ave.	(708) 956-7200	MISSISSIPPI	
GENEVA 60134 Tools Unlimited, 411 Stevens St.	(708) 208-9880	HATTIESBURG 39402 Mitchell Power Tool Service, 2000 Byron St.	(601) 264-3308
GENEVA 60134 Tools Unlimited, 411 Stevens St. JOLIET 60432	(708) 208-9880 (815) 727-4964		(601) 354-2756
GENEVA 60134 Tools Unlimited, 411 Stevens St.	(708) 208-9880	HATTIESBURG 39402 Mitchell Power Tool Service, 2000 Byron St.	

MILWAUKEE AUTHORIZED PORTA	BLE ELECTRIC	TOOL SERVICE STATIONS—USA (Contin	ued)
MISSOURI		OREGON	(500) 000 0000
JACKSON 63755 Engelhart Electric, Rt. 1, Box 236C	(314) 833-6415	BEND 97701 Norco, 101 N.E. Greenwood Ave. EUGENE 97402 Jims Tool Service, 515 Wilson St.	(503) 382-2362 (503) 344-1243
JOPLIN 64801 Electric Motor Supply Inc., 2301 W. 20th St. KANSAS CITY 64108	(417) 623-4544 (816) 421-3330	MEDFORD 97501 Kens Saw Shop, 1838 Delta Waters Rd.	(503) 779-1490
ST. LOUIS 63139	(314) 351-4550	MEDFORD 97504 Precision Power Tool Repair Inc., 3001 Crater Lake Ave.	(503) 770-5541
ST. PETERS 63376 Tool Service Center, 89 Algama Court	(314) 928-7678	PORTLAND 97214	(503) 232-1659
SPRINGFIELD 65802 Middle Earth Tool Repair Co., 306 N. National	(417) 831-0954	PENNSYLVANIA	CLA SALDRAM SEL
MONTANA		BETHLEHEM 18017 Albarell Electric Inc., 1523 Easton Ave.	(215) 691-7030
BILLINGS 59101 Teds Electric Service, 133 Moore Lane	(406) 259-6418 (406) 453-2481	CARLISLE 17013 Estep Electrical Services, 501 E. Louther St. ERIE 16501 Perry Mill Supply Co., 1115 W. 12th St.	(717) 249-2698 (814) 453-5641
BLACK EAGLE 59414 Mosch Electric Company, 2513-17th St., N. MISSOULA 59806 Electro Service Center, 1919 Harve	(406) 549-4115	HANOVER 17331 C & E Pneumatic Service Inc., 133 Broadway	(717) 632-4261
NEBRASKA	(100) 010 1110	KINGSTON 18704 Total Services & Systems, 166 W. Union St.	(717) 287-2121
GRAND ISLAND 68802 Gifco Tools & Fasteners, 363 N. Elm St.	(308) 382-1670	MECHANICSBURG 17055 Power Tool Service, 34 W. Allen St.	(717) 697-8233
LINCOLN 68504 Lincoln Tool Center, 3535 N. 40th St.	(402) 464-1157	MONROEVILLE 15146 Professional Tool Service, 700 Seco Rd., Bldg. 1	(412) 373-7440 (412) 231-3100
LINCOLN 68501 The Tool House of Henkle & Joyce, 800 Q St.	(402) 476-6673	PITTSBURGH 15233	(215) 929-5777
NORTH PLATTE 69101 Knapp Electric, 1900 E. Fourth St. OMAHA 68127 Flohr Electric Service, Inc., 4356 S. 90th St.	(308) 532-4840 (402) 331-6863	PUERTO RICO	
OMAHA 68127 Florir Electric Service, Inc., 4356 S. 90th St. Thacher Electric Inc., 8507 I St.	(402) 592-9433	CAPARRA TERRACE 00920 A.A. Repair & Rental, 1207 Americo Mirando Ave.	(809) 783-8757
OMAHA 68127 The Tool Hospital, 4630 S. 85 St.	(402) 592-5220	PUERTO NUEVO 00920 Teddy Diaz Fastening Systems, Ave. Andalucia #704	(809) 781-9889
SCOTTSBLUFF 69361 Contractors Materials, Inc., 604 S. Broadway	(308) 632-5631	RIO PIEDRAS 00929 Ramelco Inc., 65 Infantry Station—Guyama St.	(809) 751-0131
NEVADA		RHODE ISLAND	
CARSON CITY 89701 Bilbo Tool Co., 2601 E. 5th St.	(702) 883-5256	EAST PROVIDENCE 02914 Colony Tool Supply, 1033 Waterman Ave.	(401) 438-7890 (401) 737-2534
LAS VEGAS 89109	(702) 734-9161 (702) 736-8665	WARWICK 02887 Electric Motor Service, 3070 Post Rd. SOUTH CAROLINA	(401) 737-2554
SPARKS 89431 Industrial Electric, 310 Kresqe Lane	(702) 331-1032	COLUMBIA 29203 Mann Electric Repair, Inc., 3600 Main St.	(803) 252-7777
SPARKS 89434 Sierra Supply, 1830 E. Lincoln Way	(702) 353-3333	GREENVILLE 29602 Service Repair Co., 15 Hyde St.	(803) 242-5893
NEW HAMPSHIRE		SPARTANBURG 29301 Cash Supply Co., 113 Country Club Rd.	(803) 585-9326
NASHUA 03061 Hammar Industrial Supply, 175 Amhurst	(603) 882-5161	SOUTH DAKOTA	
SOMERSWORTH 03878 Tri-City Tool Crib, 439 Rte. 16	(603) 335-2582	ABERDEEN 54702 J.B. Center, 710 Sixth Ave., S.W.	(605) 229-5284
NEW JERSEY		RAPID CITY 57702 . Stan Houston Equipment Co., Inc., 1210 Deadwood Ave.	(605) 348-1155
CLIFTON 07011 The Tool Box, 119 Lakeview Ave.	(201) 340-7652	SIOUX FALLS 57103 Electric Motor Repair, 927 E. 8th St. SIOUX FALLS 57106 Stan Houston Equip. Co. Inc., 501 S. Marion Rd.	(605) 336-3020 (605) 336-3727
FAIR LAWN 07410 Bergen County Motor & Tool, 17 16 River Rd. GLOUCESTER CITY 08030 Industrial Services & Supply, 502 S. Broadway	(201) 796-3006 (609) 456-0336	TENNESSEE	(003) 330 3727
HIGHLAND PARK 08904 Kwik Industries, Inc., 225 Wood Bridge Ave.	(908) 572-3933	CHATTANOOGA 37404 Dixie Industrial Service, Inc., 2108 E. Main St.	(615) 698-8063
KENILWORTH 07033 Air & Electric Tool Service, 215 N. Eighth St.	(201) 272-5567	JACKSON 38301 Smith Tool Service, 908 S. Highland Ave.	(901) 427-4012
NEPTUNE 07753 Power Tool Co., 609 Memorial Drive	(201) 776-8282	JOHNSON CITY 37602 East Tennessee Rent-Alls, 3605 Bristol Hwy.	(615) 282-3221
POMPTON PLAINS 07444 Riverdale Tool Co., Inc., 352 Route 23 N. ROSELLE 07203 Contractors Services, 419 E. 1st Ave.	(201) 831-0621 (201) 298-1047	KNOXVILLE 37914 Electric Service Co., 3914 McCalla Ave. KNOXVILLE 37918 Shop Equipment Service Co., 4821 N. Broadway	(615) 524-8607 (615) 688-3574
TRENTON 08619 Tool Repair Inc., 61 2nd Ave.	(609) 586-8074	MEMPHIS 38126 Authorized Equipment Service, 812 Polk Ave.	(901) 774-0850
NEW MEXICO		NASHVILLE 37210 Hermitage Tool Inc., 947 Fourth Ave. S.	(615) 254-0820
ALBUQUERQUE 87107 Martin Saw & Tool, 3423 Vassar Ln.	(505) 888-1675	NASHVILLE 37210 Reeves Power Tool Repair, Inc., 108 Lafayette St.	(615) 256-8817
ALBUQUERQUE 87107 Telco Electric Inc., 2906 Fourth N.W.	(505) 345-2426	TEXAS	
FARMINGTON 87401 Marquez Ind., Rental & Repair, 135A Butler Ave. LAS CRUCES 88001 Tony's Power Tools, 240 N. Mesquite St.	(505) 326-4516 (505) 526-3144	AMARILLO 79107 G. E. Jones Electric Co., 208 14 N. Polk AUSTIN 78745 Austin Tool, Inc., 4303 Willow Springs Rd.	(806) 372-5505 (512) 447-4905
NEW YORK	(303) 320-3144	AUSTIN 78745 AUSTIN 1001, III., 4303 Willow Springs No. AUSTIN 78758 The Tool Box, 9904-A Gray Blvd.	(512) 836-5483
ALBANY 12205 Klahr Electric Co., Inc., 1846 Central Ave.	(518) 456-8510	BEAUMONT 77701 Newton Rental Tool, 520 Martin Luther King Pkwy.	(409) 835-3979
BINGHAMTON 13904 Hulbert Electric Inc., 78 Travis Ave.	(607) 724-3968	BRYAN 77801 Bailey Oxygen & Tool Co., 812 S. Bryan St.	(409) 779-7154
BROOKLYN 11204 J & A Repair Shop, 6213 20th Ave.	(718) 232-5746	CONROE 77305 Moore Bros. Lumber Co., 940 S. Fraizer CORPUS CHRISTI 78405 Corpus Christi Power Tool & Repair, 3009 Agnes	(409) 756-4476 (512) 883-1117
BUFFALO 14204 United Richter Electric Motors, 106 Michigan Ave. FARMINGTON 14425 H. & H. Rentals, 6089 Loomis Rd.	(716) 855-1945 (716) 924-7786	CORPUS CHRISTI 78405 Otto Dukes Machinery Co., 2588 Morgan St.	(512) 883-0921
GARDEN CITY PARK 11040 Eastern Industrial Equip., 2231 Jericho Turnpike	(516) 741-3198	DEL RIO 78840 Tino's Electric, Inc., 1309 Ave. G	(512) 774-6700
PEEKSKILL 10566 Peekskill Electric Motor Repair, 13 Broad St.	(914) 737-4141	EL PASO 79935 Hydra-Power Systems, 11201 Rojas Dr.	(915) 593-2636
PORT CHESTER 10573 Pelham Tool Co. Inc., 21 Abendorth Ave.	(914) 937-1771	FORT WORTH 76110 Air & Electric Tool Co., Inc., 3301 S. Grove St.	(817) 921-0231 (713) 222-8665
RIVERHEAD 17901 Riverhead Electric Tool, 523 Pulaski St. ROCHESTER 14608 Jackson Saw & Knife Co. Inc., 517 State St.	(516) 727-5510 (716) 546-7485	HOUSTON 77003 Tool Mart Inc., 2412 Texas Ave. HOUSTON 77007 K-Pal Tools, Inc., 5000 Katy Freeway	(713) 861-2364
ROCHESTER 14609 O. G. Schwarz Co., 430 Atlantic Ave.	(716) 482-9282	KILLEEN 76540 Bill's Repair Service, 112 N. 4th St.	(817) 634-2960
SYRACUSE 13204 Ramsing Electric Repairs, 914 Emerson Ave.	(315) 468-1712	LAREDO 78040 Rubio Electric Co., 1719 San Bernardo	(512) 722-3908
NEW YORK 10019 T.P. Rental Services, Inc., 417 W. 50th Street	(212) 713-1999	LONGVIEW 75607 Sobol Welders Supply Co., 1410 F-M Rd. 1845	(214) 757-3800
UTICA 13503 McQuade & Bannigan Inc., 1300 Stark St.	(315) 724-7119	LUBBOCK 79405 Lubbock Electric Co., 1108-34th St. LUBBOCK 79408 Caprock Equip. & Service Supply, 2112 50th St.	(806) 744-2336 (806) 747-9177
WEST ISLIP, L.I. 11795 Sunrise Tool Service, 124 Sunrise Hwy.	(516) 661-5548	MIDLAND 79701 Midland Tool Specialty, 918 South Main	(915) 682-4647
NORTH CAROLINA ASHEVILLE 28802	(704) 254-5763	ODESSA 79764 McCord Pump & Supply, 3711 Brazos	(915) 362-4611
CHARLOTTE 28206 Portable Tool Service, 3209 Cullman Ave.	(704) 332-8337	PASADENA 77501 Industrial Air Tools, 1305 W. Jackson	(713) 477-3144
DURHAM 27701 Southern Electric Motor, Co., 602 N. Mangum St.	(919) 688-7879	PASADENA 77506	(713) 472-3691
GREENSBORO 27405 Tool & Equipment Supply, Inc., 807 Huffman St.	(919) 275-6124	SAN ANGELO 76902 Angelo Tool Co., 914 Arroyo Dr. SAN ANTONIO 78205 Electric Motor Service & Sales, 1514 E. Commerce St.	(915) 944-8258 (512) 226-3462
GREENSBORO 27407 Tool & Equipment Service Co., 825 Norwalk St.	(919) 294-1544	TEXARKANA 75501	(214) 792-7031
HIGH POINT 27260 Piedmont Electric Repair, 208 Lindsay St. RALEIGH 27601 Specialty Tool Service, Inc., 2420 Atlantic Ave.	(919) 889-0222 (919) 833-5903	TYLER 75702 Mason Machinery Co., Inc., 1908 W. Erwin St.	(903) 592-6581
WINSTON-SALEM 27106 Piedmont Power Machine Serv., 4305-J Enterprise Dr.	(919) 759-2022	WESLACO 78596 Weslaco Tool Repair, 316 E. 4th St.	(512) 968-9156
NORTH DAKOTA		WICHITA FALLS 76301 Hornsby Tool Repair, 615 Ohio St.	(817) 322-8696
BISMARK 58501 Acme Electric, 1009 Basin Ave.	(701) 258-1267	UTAH LOGAN 84321 Glenns Electric Motor & Supply, 501 Main St.	(801) 752-4178
BISMARK 58502 Becker Electric Inc., 222 S. 16th Street	(701) 223-7630	SALT LAKE CITY 84104 Diamond Electric Motor, 1465 S. Second W.	(801) 484-4325
DICKINSON 58601 Fix-It Shop, 316 21st St. FARGO 58102 Acme Electric Motor Inc., 3401 Interstate Blvd.	(701) 225-0766 (701) 235-8060	SALT LAKE CITY 84115 A.C. Tool & Service, 2990 Southwest Temple	(801) 487-4953
FARGO 58102 Acme Electric Motor Inc., 3401 Interstate BIVG. FARGO 58102 Northern States Supply Co., 1226 38th St. N.	(701) 282-2088	VERMONT	
GRAND FORKS 58201 Acme Electric Motor Inc., 1705 13th Ave. N.	(701) 746-6481	SOUTH BURLINGTON 05403 Burlington Rent-All, 23 San Remo Dr.	(802) 658-4131
OHIO		VIRGINIA	
ALPHA 45301 Authorized Tool Service Inc., 676 Orchard Lane	(513) 429-5593	DUBLIN 24084 Berkley Tool Inc., 4791 Pepperell Way	(703) 674-5784
CINCINNATI 45210 Cincinnati Electric Repair, 2023 Elm St.	(513) 621-2183 (614) 279-6352	FREDERICKSBURG 22401 Fredericksburg Hardware Co., 513 William St.	(703) 373-8383
COLUMBUS 43222	(614) 279-6352 (513) 222-6282	HARRISONBURG 22801 G.L.S. Tool Clinic, 210 Old 33 MANASSAS PARK 22111 Arcet Equipment Co., 8399 Euclid Ave.	(703) 434-6151 (703) 361-0109
NEWARK 43055 Stone Machinery, Tool & Supply, 142 Union St.	(614) 344-9404	NEWPORT NEWS 23606 National Tool Supply, 806 Middle Ground Blvd.	(804) 873-1115
NEW PHILADELPHIA 44663 Fenton Brothers Electric, 235 Ray Ave. N.E.	(216) 343-8858	NORFOLK 23517 Bryan Electric Co., 424 W. 25th St.	(804) 625-0378
TOLEDO 43613 Electric Tool & Equipment, Inc., 3156 Upton Ave.	(419) 474-7537	RICHMOND 23261 Staley Co., Inc., 2024 Chamberlayne Ave.	(804) 321-6595
WOOSTER 44691 Albright Welding & Sply. Co., 3132 E. Lincoln Way	(216) 264-2021	ROANOKE 24017 Rent-Alls of Roanoke, Inc., 604 11th St. N.W.	(703) 345-0184 (804) 575-7506
YOUNGSTOWN 44509 Power Tool & Supply Co., 3699 LeHarps Dr. YOUNGSTOWN 44512 Pennsylvania Tool Sales & Service, 625 Bev Rd.	(216) 792-1487 (216) 758-0845	SOUTH BOSTON 24592 Bo's Hydraulics, Inc., Hwy. 501 S., Box 341 Riverdale WINCHESTER 22601 Winchester Electric Service, 443 Millwood Ave.	(703) 667-2040
OKLAHOMA		VIRGIN ISLANDS	
OKLAHOMA CITY 73106 Commercial Tool Repair, 1829 Linwood	(405) 232-2158	SAINT CROIX 00823-6632 Reliable Rentals & Sales, Sion Farm Shopping Cent.	(809) 778-5738
TULSA 74104 H.L. Moss, Inc., 1714 East 15th St.	(918) 744-1305	SAINT THOMAS 00804 Robert G. Moron, P.O. Box 944	(809) 774-2923 (Continued)
12			(Continued)

MILWAUKEE AUTHORIZED PORTABLE ELECTRIC TOOL SERVICE STATIONS—USA (Continued)

WILWAUKEE AUTHORIZED PORTA	DLE ELECTRIC	, TOOL SERVICE STATIONS -USA (CONTIL	iuea)
WASHINGTON		WEST VIRGINIA (Continued)	
BELLINGHAM 98225 Pro Tool of Bellingham, 1832 Ellis St.	(206) 733-7343	HUNTINGTON 25701 Lawter Electric Motor, Co., 202 Adams Ave.	(304) 522-8297
BELLEVUE 98005 Power Tool Service, 12121 N.E. Northup Way, #108	(206) 453-8015	MARTINSBURG 25401 Biedlers Electric Motor Repair, Charles Town Rd.	(304) 263-9995
BREMERTON 98312 Charleston Elect. Motor, 901 N. Wycoff Ave.	(206) 377-3400	WISCONSIN	(304) 203-3333
KENNEWICK 99336 Power Tool & Repair, W. 419 Entiat	(509) 586-6145		
LONGVIEW 98632 C & H Wholesale Inc., 1160 3rd Ave.	(206) 423-6496	GREEN BAY 54305 . Power Tool Service Co., 310 N. Webster Ave., Box 1343	(414) 437-2594
SPOKANE 99207 ACE/Rock Power Tool Service, E2324 Euclid #101	(509) 483-6121	LA CROSSE 54601 Lackore Electric Motor Repair, 520 S. Third St.	(608) 782-7635
SPOKANE 99202 Spokane Power Tool, E. 801 Trent		MADISON 53713 Jet Power Tool Repair Inc., 970 Jonathon Dr.	(608) 271-2315
	(509) 489-4202	MILWAUKEE 53215 Power Tools & Equipment, Inc., 2934 W. Burnham St.	(414) 384-0400
SPOKANE 99220 Safway Supply Inc., 1507 E. Sprague	(509) 535-9841	NEENAH 54956 Alferi Industrial Sales & Service Inc., 346 Smith St.	(414) 722-6483
TACOMA 98409 Center Electric Inc., 1212 S. 30th St.	(206) 383-4416	RACINE 53404 Lakeshore Electric Company, Inc., 920 Wilson St.	(414) 634-5889
TACOMA 98424 Tap Power Tool Service, 1401 52nd Ave. E.	(206) 922-5787	WAUKESHA 53186 Jensen Equipment Company, Inc., 831 Phillip Dr.	(414) 547-5548
WENATCHEE 98801 Motor Mart, 150 Marr St.	(509) 663-4237	WISCONSIN RAPIDS Wisconsin Valley Concrete Products Co., 610 McKinley	(715) 423-7500
YAKIMA 98902 Cooper Electric Motor Service, 205 S. Fourth Ave.	(509) 452-9550	WYOMING	1, 10, 120, 100
WEST VIRGINIA			(007) 700 4050
BECKLEY 25801 Air-Tech Tool Service, Inc., 325 City Ave.	(304) 253-6799	EVANSTON 82930 J.C. Electric, 198 County Rd.	(307) 789-4650
MILWAUKEE AUTHORIZED PROFES	SIONAL LIFTIN	IG TOOLS (HOISTS) SERVICE STATIONS-	HEA
	SIGNAL EII III		-U3A
ALABAMA		NEW JERSEY	
BESSEMER 35020 H & S Repair Service, 418 N. 20th St.	(205) 425-9541	NEWARK 07114 Lafayette Crane & Hoist, Inc., 182 Vanderpool St.	(201) 824-8336
BIRMINGHAM 35233 Tool Smith Co., 1308 4th Ave., S.	(205) 323-2576	NEW YORK	
CALIFORNIA		BUFFALO 14213 Volland Electric Equipment Co., 1511 Niagara St.	(716) 884-2713
CERRITOS 90701 Continental Tools & Hoists, 11447 Beach St.	(714) 994-1412		(/10) 004-2/13
FRESNO 93721 Kimmerle Brothers, Inc., 337 "M" St.	(209) 233-1278	NORTH CAROLINA	
PITTSBURG 94565 Advanced Hoist & Crane, 620 Garcia, Unit E		CHARLOTTE 28208 Southern Electric Service, 2225 Freedom Dr.	(704) 372-4832
	(415) 439-7874	GREENSBORO 27405 . Carolina Lifts & Hydraulic, Inc., 3310 E. Wendover Ave.	(919) 375-6050
SAN FRANCISCO 94103 Kimmerle Brothers, Inc., 226 11th St.	(415) 431-1163	OHIO	
SANTA FE SPRINGS 90670 . Arrow Crane Hoist Corp., 12714 Carmenita Road	(213) 921-8328	CLEVELAND 44135 H & L Electric Co., 13224 Enterprise Ave.	(216) 267-9100
SANTA FE SPRINGS 90670 Kimmerle Brothers, Inc., 12060 E. Florence St.	(213) 946-6771	DAYTON 45414 Sytek IEM Division, 5131 Webster St.	(513) 278-7355
FLORIDA			(313) 270-7333
DANIA 33004 Material Handling Systems, 720 S.W. 4th Ct.	(305) 921-1171	OKLAHOMA	
KISSIMMEE 32741 J. Herbert Corp., 1751 S. Bermuda Ave.	(407) 846-0588	TULSA 74112	(918) 836-6827
GEORGIA	(107) 010 0000	OREGON	
		PORTLAND 97209 General Tool & Supply Co., 407 N.W. 17th Ave.	(503) 226-3411
ALBANY 31707 Air Specialists, Inc., Highway 82 West	(912) 435-0084	PENNSYLVANIA	(000), 220
NORCROSS 30093 Ace Industries Inc., 6295 McDonough Dr.	(404) 441-0898		(045) 057 0005
ILLINOIS		ABINGTON 19001 Repair Unlimited, 1730 Rockwell Road	(215) 657-3335
FOREST PARK 60130 . Sievert Elect. Service & Sales Co., 1230 S. Hannah St.	(708) 771-1600	PITTSBURGH 15215 Globe Electric Co., 200 23rd St.	(412) 781-2677
INDIANA	1,000	RHODE ISLAND	
	(040) 740 0475	WOONSOCKET 02895 Electric Maint. & Eng. Works, Inc., 193 Railroad St.	(401) 762-3871
FORT WAYNE 46803 Materials Handling Equipment, 7433 US 30 East	(219) 749-0475	SOUTH DAKOTA	
INDIANAPOLIS 46225 Brehob Electric Equipment Inc., 1334 S. Meridian St.	(317) 632-4451	SIOUX FALLS 57101 Jamison Shakstad's Inc., 1400 Industrial Ave.	(CDE) 22C 2000
IOWA			(605) 336-3090
DES MOINES 50313 A & B Electric Motor Service, 1727 Hull Ave.	(515) 265-8552	TENNESSEE	
KENTUCKY		MEMPHIS 38108 D.M.C. Hoist & Crane Service, 1403 N. Willett St.	(901) 272-1015
LOUISVILLE 40206 Advanced Material Handling Co., Inc., 1734 Mellwood Ave.	(E02) 006 2166	MEMPHIS 38127 Hi-Speed Electrical Co., 3013 Thomas St.	(901) 357-6231
	(502) 896-2166	NASHVILLE 37210 Garrison Service Co., Inc., 719 3rd Ave. S.	(615) 254-1334
LOUISIANA		TEXAS	
WESTLAKE 70669 Dixie Supply, Inc., 3301 Cities Service Highway	(318) 882-6011	FORT WORTH 76117 Gaffey Inc., 4301 Garland Dr.	(817) 281-1994
MARYLAND			
BALTIMORE 21202 Industrial Electric Co., Inc., 707 S. Central Ave.	(301) 327-1150	HOUSTON 77002 Hydraulic Equipment Service, 1021 N. San Jacinto St.	(713) 228-4073
	(301) 327-1130	UTAH	
MICHIGAN		SALT LAKE CITY 84115 Agutter Eng. & Sales Corp., 320 West 1700 South	(801) 486-0755
FRASER 48026 Continental Crane & Service Co., 33681 Groesbeck Hwy.	(313) 293-3870	VIRGINIA	
MINNESOTA		ASHLAND 23005 Foley Material Handling Co., 1 Virginia Crane Drive	(804) 798-1343
MINNEAPOLIS 55411 Electric Motor Repair, Inc., 2010 N. 4th St.	(612) 522-3318		(004) 700-1043
MISSOURI	,, 022 00.0	WASHINGTON	
MANICAG CITY CA100	(040) 004 7700	SEATTLE 98108	(206) 762-4430
KANSAS CITY 64108 Contractors Supply Co., 800 E. 18th St.	(816) 221-7788	WISCONSIN	
ST. LOUIS 63125 Zeller Electric, 4250 Hoffmeister Ave.	(314) 638-9641	NEENAH 54956 Alferi Industrial Sales & Service, 346 Smith St.	(414) 722-6483
NEBRASKA			No.
OMAHA 68127 Thacker Electric Co., 8507 Street	(402) 592-9433		



CANADIAN FACTORY SERVICE CENTRE



MILWAUKEE ELECTRIC TOOL (CANADA) LTD. 755 Progress Avenue, Scarborough, Ontario M1H 2W7 PHONE 416-439-4181 TORONTO TELEX 06-963796 FAX 416-439-6210

MILWAUKEE AUTHORIZED PORTABLE ELECTRIC TOOL SERVICE STATIONS—CANADA

ALBERTA		NEW BRUNSWICK (Continued)	
Calgary T2G 4C4 Air Electric Services Ltd., 422 Manitou Road S.E.	(403) 287-2456	Edmundston E3V 3B8 Picard Service Inc., 2-47th Ave.	(506) 739-9475
Calgary T2G 4H2 Industrial Power Tool, 2312 Spiller Road S.E.	(403) 261-0780	Moncton E1C 8H7 Moncton Electric Motor Service Ltd., 345 Collishaw St.	(506) 859-7505
Edmonton T6B 0A9 Air Electric Services Ltd., 6739-76 Ave.	(403) 465-0906	Saint John E2L 4A5 Eastern Distributors Ltd., 38 Bayside Dr.	(506) 634-8761
Edmonton T6E 5P4 Can-Tech Tool Service, 9252-34A Avenue	(403) 450-6389	NEWFOUNDLAND	
Edmonton T5M 3B9 O.K. Power Tool Repairs Ltd., 14740-115th Ave	(403) 455-0373	St. John's A1B 3R2 Rideout Tool and Machine, Inc., 222 Kenmount Road	(709) 754-2240
Grand Prairie T8V 4E3 Bermar Rewind Ltd., 9609-109 St.	(403) 532-0818	NOVA SCOTIA	(700) 704 2240
Lethbridge T1J 0E3 Hagen Electric Ltd., 1202-2nd Ave. South	(403) 328-8826	Dartmouth B3A 1A5 Fader Agencies, 83 Shore Rd.	(902) 466-2333
Red Deer T4N 4B6 McAuley's Electric Motors Ltd., 5301-50th Ave.	(403) 346-3361	Detect DOMANIE NIL D. OL 111 0750 OL 1.	(902) 468-2936
BRITISH COLUMBIA		Sydney B1P 5P5 Dale Burke Auto Electric, 1081 Upper Prince St.	(902) 562-6623
Castlegar V1N 3N8 Martech Electrical Systems Ltd., 1700 Woodland Drive	(604) 365-2115	ONTARIO	(902) 902-0023
Kamloops V2C 4B6 Thompson Valley Rewind Ltd., 1647 Valleyview Drive	(604) 374-1633		(440) 407 0505
Kelowna V1Y 2K5 Thompson Electric Motor Service Ltd., 1090 Richter St.	(604) 762-3136	Ajax L1S 4S2 J.D. Automotive Air Tool Repair, 676 Monarch Ave., Unit 3	(416) 427-2595
Kelowna V1Y 3E3 K.Y. Tools Sales & Service, #2-1115 Gordon Dr.	(604) 862-2575	Barrie L4M 5G1 Tony's Power Tool & Vacuum Repair, 59 Bell Farm Rd. #4	(705) 726-1142
Langley V3A 3X8 A.C. Power Tool Clinic, #105-19835-56th Ave.	(604) 530-3550	Belleville K8N 4V1 Emsco Limited, 57 Cannifton Rd.	(613) 966-3230
Nanaimo V9R 5E5 Solar Electric Repairs (1981) Ltd., 20A Cliff St.	(604) 753-1731	Cambridge N3H 4V7	(519) 650-1621 (416) 738-5060
Penticton V2A 3J8 A. C. Motor Electric Ltd., 259 Okanagan Ave. East	(604) 493-1440	Etobicoke M9W 6R2 . Karl's Power Tool's Sales Service, 22 Goodmark Pl., #25	(416) 675-1310
Prince George V2N 1A9 Accurate Tool Repair, 3674-18th Ave.	(604) 562-8833	Hamilton L8H 5X2 Apollo Tool Repair & Sales, 180 Parkdale Ave. North	(416) 544-5202
Surrey V3W 2V8 Delta Electric Tool (1981), #6-13325-76th Ave.	(604) 591-3230	Huntsville POA 1KO Huntsville Armature Ltd., 51 Ferguson Road, R.R. #1	(705) 789-9301
Vancouver V5Y 1G8 Armature Electric Ltd., 275 West 4th St.	(604) 879-6141	Kingston K7M 1W6 Boyd Electric Ltd., 833 Portsmouth Ave.	(613) 548-4888
Vernon V1T 5J9 Electrical Enterprise Ltd., 4600-31st St.	(604) 542-1166	Kitchener N2H 5Z2 R.M.W. Electric Inc., 969 Guelph St.	(519) 744-1821
Victoria V8W 1M1 A.B.C. Electric Ltd., 831 Yates St.	(604) 382-7221	Lindsay K9V 1W7 Jordan Electric Motor Service, 4 Durham St. E.	(705) 324-9427
MANITOBA		London N5W 2M1 A.C. Jenkins Electric Repair Co., 1188 Frances St.	(519) 451-4020
Brandon R7A OH5 Harold's Electric Service, 362 Pacific Ave.	(204) 727-7292	London N5W 3P4 Moore Tool & Motor Service Ltd., 960 Elias St., Unit 2	(519) 679-6326
Winnipeg R3J 1M7 Accutool Service Centres, 454 Brooklyn St.	(204) 837-8665	Mississauga L5T 2K4 . Bertsch Power Tool Service Ltd., 1320 Midway Blvd. #8	(416) 670-7716
Winnipeg R3G 3K4 Westburne Industrial Ent. Ltd., 1300 St. Matthews Ave.	(204) 786-7861	North Bay P1B 1W4 Glendrew Power Tools, 455 McCaughey Ave.	(705) 495-1956
NEW BRUNSWICK		Orillia L3V 6K2 Orser Electric Ltd., 301 Forest Ave.	(705) 326-6427
Bathurst E2A 1W9 Steve's Electric Motor Service Reg'd., 605 Bridge St.	(506) 548-4681	Ottawa K1S 4N1 Grant Electric Ottawa Ltd., 401 Preton St.	(613) 236-9773 113
			(Continued)

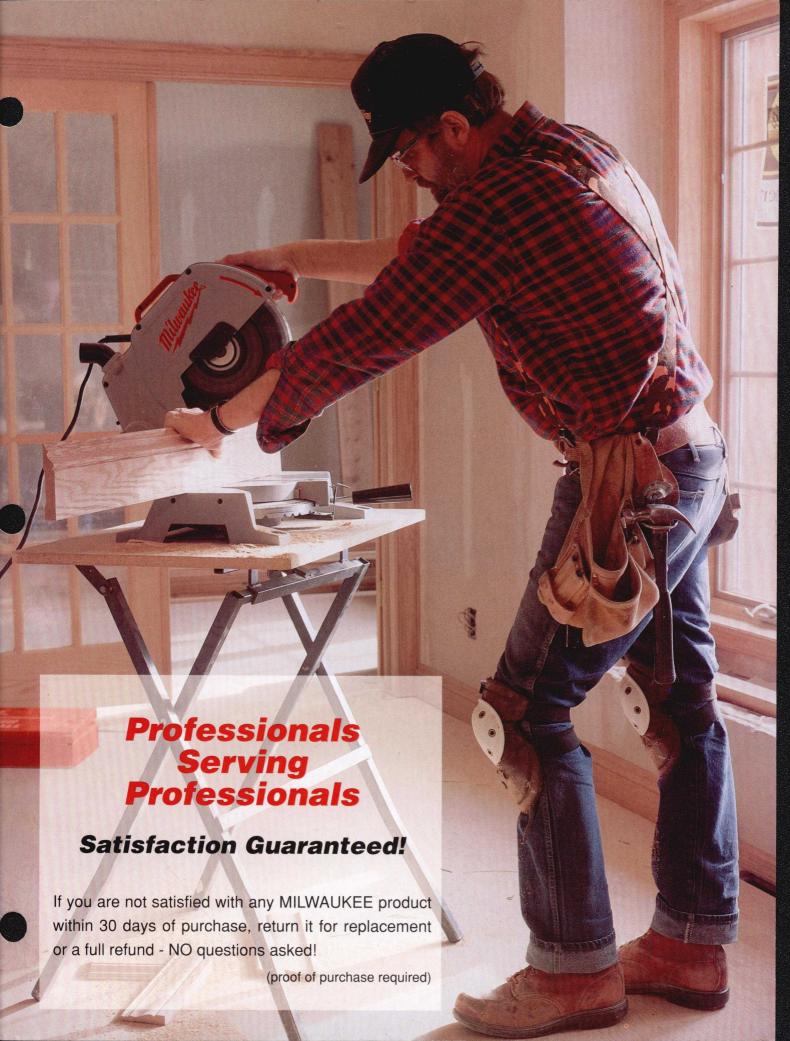
MILWAUKEE AUTHORIZED PORTABLE ELECTRIC TOOL SERVICE STATIONS—CANADA (Continued)

	MILWAUKEE AUTHORIZED PORTAB	LE ELECTRIC	TOOL SERVICE STATIONS—CANADA (Co	ntinued)
	ONTARIO (Continued)		QUEBEC (Continued)	
	Ottawa K1B 4E4 Mytek Power Tools Service, 101-2555 Blackwell St.	(613) 749-7294	Jonquiere G7S 4K6 Moteurs Saguenay Enr, 2885 Boul. Du Royaume	(418) 548-8211
	Peterborough K9J 2N3 Larry Electric Motor Service, 164 Sherbrooke St.	(705) 743-3167 (416) 884-8545	Montreal H2M 1R9 Inolec Inc., 8945 Rue Lajeunesse Montreal H4A 2K5 Instrument Sales & Service Inc., 2185 Hampton Ave.	(514) 384-9021 (514) 481-8111
	Richmond Hill L4C 2Y2 C.A.F. Elec. Motor & Pump Repairs, 45-47 Industrial Rd. Sarnia N7S 5N3	(519) 332-3926	Quebec City G1P 2H5 Service D'outillage Soucy Inc., 930 Lachance	(418) 682-0560
	Sarnia N7S 2G6 Terry Cain Tool Repairs, 133 Campbell St.	(519) 336-7000	Riviere-du-Loup G5R 3Z3 Specialities Electriques, Riviere-du-Loup Inc.	(418) 862-5141
	Scarborough M1P 3A6 The Tool Doctor Ltd., 135 Midwest Rd.	(416) 751-3530	180 Temiscouata	A STANDAR THE TOTAL OF THE STANDARD OF THE STA
	St. Catherines L2T 1J7 Kaupp Electric Ltd., 225 Merritt St.	(416) 227-1661	Ville de Quebec G1N 4E9 . Clinique D'Outillage M.P. Inc., 1550 Du Grand Tronc	(418) 682-0841
	Stratford N5A 6W3 Culliton Brother Ltd., 473 Douro St.	(519) 271-1981 (705) 566-5944	Sept-lles G4R 1L8 Ateliers Wood Inc., 361 Noel Ave. Sept-lles G4R 2B1 Bobinage GLM Inc., 391-C, Av. Jolliet	(418) 962-6131 (418) 968-9443
	Sudbury P3E 5K6	(807) 623-8471	Sherbrooke J1G 1E4 Do-Mar Electrique Inc., 1136 King St. E.	(819) 563-2234
	Thunder Bay P7B 2X8 Merse Motor Electric Ltd., 194 South Court St.	(807) 345-2323	St. Ours JOG 1PO Jacques Pelletier Electrique, Chemin des Patroites	(514) 785-3076
	Timmins P4N 2P5 Gils Electric Motor Repair Ltd., 395 Railway St.	(705) 267-7164	Ste-Foy G1N 4L6 Reparation D'outils R. Martel Inc., 2025 Rue Lavoisier,	(418) 681-9444
	Toronto M6B 1G1 A.M.T. Power Tool & Saw Ltd., 1182 Castlefield Avenue	(416) 783-6095	Local 180 St. Jean-Sur-Richelieu J3B 4R9 Moteurs Electriques St. Jean Enrg.,	
	Toronto M5A 3C8 Miller Air & Electric Co. Ltd., 7 Gilead Pl. Welland L3B 5W6 Burger Electric Motor Service Ltd., 60 Clark St.	(416) 368-5646 (416) 734-6171	St. Jean-Sur-Hichelleu J3B 4H9 Moteurs Electriques St. Jean Enry., 365 Grand Bernier N.	(514) 347-3265
	Windsor N9A 3M2 . Willoughby-Boyle Electric Motor Repair, 558 Tuscarora St.	(519) 258-4260	Ville StGeorge G5Y 7J7 Electro Beauce Inc., 2250 90 Rue Est.	(418) 228-5505
	PRINCE EDWARD ISLAND		Valleyfield J6S 3V5 Centre De Reparation Energy, 151 Maden	(514) 373-6055
	Parkdale C1A 6A5 Chandler Motor Repair, 22 Garfield St.	(902) 892-6345	Victoriaville G6P 7E6 Baril Electrique Inc., 444 Cantin Parc Industriel	(819) 752-4480
	QUEBEC		SASKATCHEWAN	
	Anjou H1J 1C3 Products & Services Inc., 7750 Grenache	(514) 355-9650	Regina S4N 6H2 Regina Power Tool Service Ltd., 1747 Mackay St.	(306) 352-3106
	Cap-De-La-Madeleine G8T 6J4 G.D. Reparations Enr., 5 Rue Bellerive	(819) 378-3081	Saskatoon S7K 0W1 Ted's Power Tool Repair, 426-44th St. East YUKON TERRITORY	(306) 934-6155
	Drummondville J2C 1T9 Docteur De L'Outil Melam Enr., 220A Dorion, CP593	(819) 478-1109 (819) 663-2526	Whitehorse Y1A 2L6 Oscar's Electric Co. Ltd., 310 Alexander St.	(403) 667-2330
	Gatineau J8P 166 Les Equipments Brabant et Fils, 776B Boul. Maloney Est. Grandby J2G 5A7 Armatures Shefford Inc., 200 Rue Cartier		Williefforse TTA 220 Oscal 3 Lieutile Go. Etd., 3 To Alexander Gr.	(403) 007 2330
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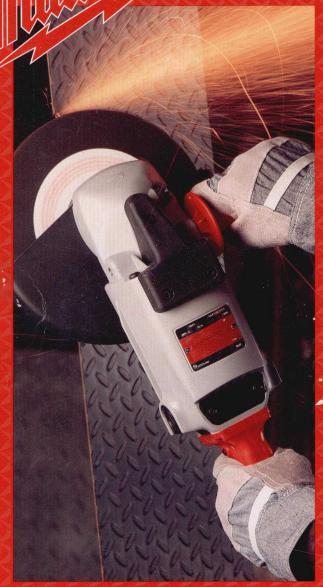


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